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#### **Amendments to the Claims**

1. (currently amended) A compound or a pharmaceutically acceptable salt or an ester prodrug derivative thereof represented by formula (IA):

$$Z_{P} \xrightarrow{(L_{P2})} \xrightarrow{(L_{P1})} \xrightarrow{RP_{3}} \xrightarrow{R} \xrightarrow{R'} \xrightarrow{RT_{3}} \xrightarrow{(IA)} \xrightarrow{RB'} \xrightarrow{(IA)} Z_{TB}$$

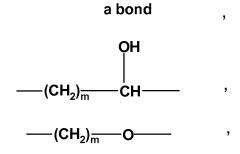
wherein

R and R' are independently C<sub>1</sub>-C<sub>5</sub> alkyl, C<sub>1</sub>-C<sub>5</sub> fluoroalkyl, or together R and R' form a substituted or unsubstituted, saturated or unsaturated carbocyclic ring having from 3 to 8 carbon atoms;

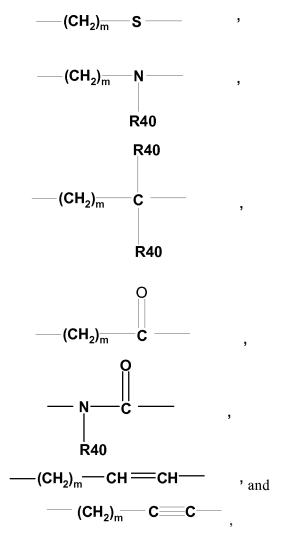
RP<sub>3</sub> and RB are independently selected from hydrogen, halo,  $C_1$ - $C_5$  alkyl,  $C_1$ - $C_5$  fluoroalkyl, -O- $C_1$ - $C_5$  alkyl, -S- $C_1$ - $C_5$  alkyl, -O- $C_1$ - $C_5$  fluoroalkyl, -CN, -NO<sub>2</sub>, acetyl, -S- $C_1$ - $C_5$  fluoroalkyl,  $C_2$ - $C_5$  alkenyl,  $C_3$ - $C_5$  cycloalkyl, or  $C_3$ - $C_5$  cycloalkenyl;

RP, RT<sub>3</sub>, and RB' are independently selected from hydrogen, halo,  $C_1$ - $C_5$  alkyl,  $C_1$ - $C_5$  fluoroalkyl, -O- $C_1$ - $C_5$  alkyl, -S- $C_1$ - $C_5$  alkyl, -O- $C_1$ - $C_5$  fluoroalkyl, -CN, -NO<sub>2</sub>, acetyl, -S- $C_1$ - $C_5$  fluoroalkyl,  $C_2$ - $C_5$  alkenyl,  $C_3$ - $C_5$  cycloalkyl, or  $C_3$ - $C_5$  cycloalkenyl;

 $(L_{P1}),\,(L_{P2}),\,$  and  $(L_{TB})$  are divalent linking groups independently selected from the group consisting of



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where m is 0, 1, or 2, and each R40 is independently hydrogen,  $C_1$ - $C_5$  alkyl, or  $C_1$ - $C_5$  fluoroalkyl;

Z<sub>P</sub> is

branched C<sub>3</sub>-C<sub>5</sub> alkyl,

3-methyl-3-hydroxypentyl,

3-methyl-3-hydroxypentenyl,

3-methyl-3-hydroxypentynyl,

3-ethyl-3-hydroxypentyl,

3-ethyl-3-hydroxypentenyl,

3-ethyl-3-hydroxypentynyl,

3-ethyl-3-hydroxy-4-methylpentyl,

3-ethyl-3-hydroxy-4-methyl pentenyl,

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3-ethyl-3-hydroxy-4-methylpentynyl,

3-propyl-3-hydroxypentyl,

3-propyl-3-hydroxypentenyl,

3-propyl-3-hydroxypentynyl,

1-hydroxy-2-methyl-1-(methylethyl)propyl,

2-methyl-3-hydroxy-4-dimethylpentyl,

2-methyl-3-hydroxy-3-ethylpentyl,

2-ethyl-3-hydroxy-3-ethylpentyl,

2-ethyl-3-hydroxy-4-dimethylpentyl,

3-methyl-3-hydroxy-4,4-dimethylpentyl,

3-methyl-3-hydroxy-4,4-dimethylpentenyl,

3-methyl-3-hydroxy-4,4-dimethylpentyl,

3-ethyl-3-hydroxy-4,4-dimethylpentynyl,

3-ethyl-3-hydroxy-4,4-dimethylpentenyl,

3-ethyl-3-hydroxy-4,4-dimethylpentynyl,

1-hydroxycycyclopentenyl,

1-hydroxycyclohexenyl,

1-hydroxycycloheptenyl,

1-hydroxycyclooctenyl,

1-hydroxycyclopropyl,

1-hydroxycyclobutyl,

1-hydroxycyclopentyl,

1-hydroxycyclohexyl,

2-oxocyclohexyloxy,

2-oxocyclohexylmethyl,

3-methyl-2-oxocyclohexyloxy,

3-methyl-2-oxocyclohexylmethyl,

3,3-dimethyl-2-oxocyclohexyloxy,

3,3-dimethyl-2-oxocyclohexylmethyl,

2-hydroxycyclohexyloxy,

2-hydroxycyclohexylmethyl,

3-methyl-2-hydroxycyclohexyloxy,

3-methyl-2-hydroxycyclohexylmethyl,

3,3-dimethyl-2-hydroxycyclohexyloxy,

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 $3, 3-dimethyl-2-hydroxycyclohexylmethyl\;,$ 

1-hydroxycycloheptyl, or

1-hydroxycyclooctyl;

#### provided, however, that when

Z<sub>P</sub> is

3-methyl-3-hydroxypentyl,

3-methyl-3-hydroxypentenyl,

3-methyl-3-hydroxypentynyl,

3-ethyl-3-hydroxypentyl,

3-ethyl-3-hydroxypentenyl,

3-ethyl-3-hydroxypentynyl,

3-ethyl-3-hydroxy-4-methylpentyl,

3-ethyl-3-hydroxy-4-methylpentenyl,

3-ethyl-3-hydroxy-4-methylpentynyl,

3-propyl-3-hydroxypentyl,

3-propyl-3-hydroxypentenyl,

3-propyl-3-hydroxypentynyl,

3-methyl-3-hydroxy-4,4-dimethylpentyl,

3-methyl-3-hydroxy-4,4-dimethylpentenyl,

3-methyl-3-hydroxy-4,4-dimethylpentyl,

3-ethyl-3-hydroxy-4,4-dimethylpentynyl,

3-ethyl-3-hydroxy-4,4-dimethylpentenyl,

3-ethyl-3-hydroxy-4,4-dimethylpentynyl,

2-methyl-3-hydroxy-4-dimethylpentyl,

2-methyl-3-hydroxy-3-ethylpentyl,

2-ethyl-3-hydroxy-3-ethylpentyl,

2-ethyl-3-hydroxy-4-dimethylpentyl, or

1-hydroxy-2-methyl-1-(methylethyl)propyl;

then  $(L_{P1})$  and  $(L_{P2})$  combine as a bond;

## Z<sub>TB</sub> is selected from

 $-O-(C_1-C_5 \text{ alkyl}),$ 

-O-(C2-C5 alkenyl),

-O-(C3-C5 cycloalkyl),

- -O-(C3-C5 cycloalkenyl),
- -O-(C<sub>1</sub>-C<sub>5</sub> hydroxyalkyl),
- -O-(C<sub>1</sub>-C<sub>5</sub> fluoroalkyl),
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-phenyl,
- $-O-(C_1-C_5 \text{ alkyl})-(O)-(C_1-C_5 \text{ alkyl}),$
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl) NH<sub>2</sub>
- $-O-(C_1-C_5 \text{ alkyl})-NH-(C_1-C_5 \text{ alkyl})_2$
- $-O-(C_1-C_5 \text{ alkyl})-C(O)-NH_2$
- $-O-(C_1-C_5 \text{ alkyl})-C(O)-NH-(C_1-C_5 \text{ alkyl}),$
- $-O-(C_1-C_5 \text{ alkyl})-C(O)-N-(C_1-C_5 \text{ alkyl})_2$
- $-O-(C_1-C_5 \text{ alkyl})-C(O)-OH$ ,
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)-NH-5-tetrazolyl,
- $-O-(C_1-C_5 \text{ alkyl})-C(O)-(C_1-C_5 \text{ alkyl}),$
- $-O-(C_1-C_5 \text{ alkyl})-C(O)-(O-C_1-C_5 \text{ alkyl}),$
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-NH<sub>2</sub>
- $-O-(C_1-C_5 \text{ alkyl})-NH-(C_1-C_5 \text{ alkyl}),$
- $-O-(C_1-C_5 \text{ alkyl})-N-(C_1-C_5 \text{ alkyl})_2$
- $-O-(C_1-C_5 \text{ alkyl})-NH-SO_2-(C_1-C_5 \text{ alkyl}),$
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidin-2-one,
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidine,
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-(1-methylpyrrolidin-2-one-3-yl),
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl,)
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-NH<sub>2</sub>
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-NH-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-N-(C<sub>1</sub>-C<sub>5</sub> alkyl)<sub>2</sub>
- $-O-(C_1-C_5 \text{ alkyl})-SO_2-(C_1-C_5 \text{ alkyl}),$
- $-O-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl})$
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-S(O)-NH<sub>2</sub>
- $-O-(C_1-C_5 \text{ alkyl})-S(O)-NH-(C_1-C_5 \text{ alkyl}),$

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- $-O-(C_1-C_5 \text{ alkyl})-S(O)-N-(C_1-C_5 \text{ alkyl})_2$
- $-O-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl}),$
- $-O-(C_1-C_5 \text{ alkyl})-P(O)-(O-C_1-C_5 \text{ alkyl})_2$ ,
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-5-tetrazolyl,
- -O-CH<sub>2</sub>-CO<sub>2</sub>H,
- -O-CH<sub>2</sub>-5-tetrazolyl,
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- -O-C(O)-NH<sub>2</sub>,
- -O-C(O)-N-(CH<sub>3</sub>)<sub>2</sub>,
- $-O-C(S)-N-(CH_3)_2$ ,
- -O-C(O)-O-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- -O-(5-tetrazolyl),
- $-O-SO_2-(C_1-C_5 alkyl,)$
- -O-SO<sub>2</sub>-NH<sub>2</sub>,
- $-O-SO_2-NH-(C_1-C_5 alkyl),$
- $-O-SO_2-N-(C_1-C_5 \text{ alkyl})_2$ ,
- $-O-S(O)-(C_1-C_5 \text{ alkyl},)$
- -O-S(O)-NH<sub>2</sub>,
- $-O-S(O)-NH-(C_1-C_5 alkyl),$
- $-O-S(O)-N-(C_1-C_5 alkyl)_2$ ,
- $-S-(C_1-C_5 \text{ alkyl}),$
- -S-(C<sub>2</sub>-C<sub>5</sub> alkenyl),
- -S-(C3-C5 cycloalkyl),
- -S-(C<sub>3</sub>-C<sub>5</sub> cycloalkenyl),
- -S-(C<sub>1</sub>-C<sub>5</sub> fluoroalkyl),
- -S-(C<sub>1</sub>-C<sub>5</sub> hydroxyalkyl),
- -S-(C<sub>1</sub>-C<sub>5</sub> alkyl)-phenyl,
- $-S-(C_1-C_5 \text{ alkyl})-O-(C_1-C_5 \text{ alkyl}),$
- -S-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)-OH,

$$-S-(C_1-C_5 \text{ alkyl})-C(O)-(C_1-C_5 \text{ alkyl}),$$

$$-S-(C_1-C_5 \text{ alkyl})-C(O)-O-(C_1-C_5 \text{ alkyl}),$$

$$-S-(C_1-C_5 \text{ alkyl})-C(O)-NH_2$$

$$-S-(C_1-C_5 \text{ alkyl})-C(O)-NH-(C_1-C_5 \text{ alkyl}),$$

$$-S-(C_1-C_5 \text{ alkyl})-C(O)-N-(C_1-C_5 \text{ alkyl})_2$$

$$-S-(C_1-C_5 \text{ alkyl})-NH-(C_1-C_5 \text{ alkyl}),$$

$$-S-(C_1-C_5 \text{ alkyl})-N-(C_1-C_5 \text{ alkyl})_2$$

$$-S-(C_1-C_5 \text{ alkyl})-NH-SO_2-(C_1-C_5 \text{ alkyl}),$$

$$-S-(C_1-C_5 \text{ alkyl})-SO_2-NH_2$$

$$-S-(C_1-C_5 \text{ alkyl})-SO_2-NH-(C_1-C_5 \text{ alkyl}),$$

$$-S-(C_1-C_5 \text{ alkyl})-SO_2-N-(C_1-C_5 \text{ alkyl})_2$$
,

$$\hbox{-S-}(C_1\hbox{-}C_5 \ alkyl)\hbox{-}5\hbox{-tetrazolyl},$$

$$\hbox{-S-}(C_1\hbox{-}C_5 \text{ alkyl})\hbox{-S(O)-}(C_1\hbox{-}C5 \text{ alkyl}),$$

$$-S-(C_1-C_5 \text{ alkyl})-S(O)-NH_2$$

$$-S-(C_1-C_5 \text{ alkyl})-S(O)-NH-(C_1-C_5 \text{ alkyl}),$$

$$\hbox{-S-}(\operatorname{C}_1\hbox{-C}_5 \text{ alkyl})\hbox{-S(O)-N-}(\operatorname{C}_1\hbox{-C}_5 \text{ alkyl})_2,$$

$$\hbox{-S-}(C_1\hbox{-}C_5 \ alkyl)\hbox{-S(O)-}(C_1\hbox{-}C_5 \ alkyl),$$

$$-SO_2-(C_1-C_5 alkyl),$$

$$\hbox{-SO}_2\hbox{-}(C_1\hbox{-}C_5 \ hydroxyalkyl),$$

$$-SO_2-(C_1-C_5)$$
-phenyl,

$$-SO_2$$
-NH-(C<sub>1</sub>-C<sub>5</sub> alkyl),

$$-SO_2$$
-NH-CH<sub>2</sub>-C(O)OH,

$$\hbox{-SO}_2\hbox{-NH-CH}_2\hbox{-C(O)}(\hbox{O-C}_1\hbox{-C}_5 \text{ alkyl}),$$

$$-SO_2$$
-NH- $(C_1$ - $C_5$  alkyl)- $C(O)$ OH,

$$-SO_2$$
-NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)(O-C<sub>1</sub>-C<sub>5</sub> alkyl),

$$-SO_2$$
-NH-C(O)-(C<sub>1</sub>-C<sub>5</sub> alkyl),

$$-SO_2-N-(C_1-C_5 \text{ alkyl})_2$$

$$-SO_2-(C_1-C_5 \text{ alkyl})-O-(C_1-C_5 \text{ alkyl}),$$

$$-SO_2-(C_1-C_5 \text{ alkyl})-C(O)-(C_1-C_5 \text{ alkyl}),$$

$$-SO_2$$
-(C<sub>1</sub>-C<sub>5</sub> alkyl) NH<sub>2</sub>.

$$-SO_2-(C_1-C_5 \text{ alkyl})-NH-(C_1-C_5 \text{ alkyl}),$$

$$-SO_2-(C_1-C_5 \text{ alkyl})-N-(C_1-C_5 \text{ alkyl})_2$$

$$-SO_2-(C_1-C_5 \text{ alkyl})-C(O)-NH-(C_1-C_5 \text{ alkyl}),$$

$$-SO_2-(C_1-C_5 \text{ alkyl})-C(O)-O-(C_1-C_5 \text{ alkyl}),$$

$$-SO_2$$
-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)-OH,

$$-SO_2-(C_1-C_5 \text{ alkyl})-SO_2-(C_1-C_5 \text{ alkyl}),$$

$$-SO_2-(C_1-C_5 \text{ alkyl})-SO_2-NH_2$$

$$-SO_2$$
-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl),

$$-SO_2-(C_1-C_5 \text{ alkyl})-P(O)-(O-C_1-C_5 \text{ alkyl})_2$$
,

$$-SO_2-(C_1-C_5)$$
-phenyl,

$$-SO_2-N=CHN(C_1-C_5 \text{ alkyl}) 2.$$

$$-S(O)-NH2$$

$$-S(O)-NH-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-NH-CH_2-C(O)OH$$

$$-S(O)-NH-(C_1-C_5 \text{ alkyl})-C(O)OH$$
,

$$-S(O)-NH-CH_2-C(O)(O-C_1-C_5 \text{ alkyl}),$$

$$-S(O)-NH-(C_1-C_5 \text{ alkyl})-C(O)(O-C_1-C_5 \text{ alkyl}),$$

$$-S(O)-NH-C(O)-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-N-(C_1-C_5 \text{ alkyl})_2$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-O-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-(O-C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-NH-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-N-(C_1-C_5 \text{ alkyl})_2$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-NH_2$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-NH-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-N-(C_1-C_5 \text{ alkyl})_2$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-NH-SO_2-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-NH-S(O)-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-(O-C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-OH,$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-5-\text{tetrazolyl},$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-SO_2-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-SO_2-NH_2$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-S(O)-NH_2$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-SO_2-NH-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-S(O)-NH-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-SO_2-N-(C_1-C_5 \text{ alkyl})_2$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-S(O)-N-(C_1-C_5 \text{ alkyl})_2$$

-S(O)-(C
$$_1$$
-C $_5$ alkyl)-P(O)-(O-C $_1$ -C $_5$ alkyl) $_2$  ,

$$-S(O)-N=CHN(C_1-C_5 \text{ alkyl}) 2$$

$$-NHC(S)NH_{2}$$

-NHC(S)NH-(
$$C_1$$
- $C_5$  alkyl),

-NHC(S)N-
$$(C_1-C_5 \text{ alkyl})_2$$
,

$$\hbox{-NHC}(S) \hbox{NH-}(C_2\hbox{-}C_5 \ alkenyl),$$

$$\hbox{-NHC}(S) \hbox{NH-}(\hbox{C}_3\hbox{-C}_5 \ cycloalkyl),$$

$$\hbox{-NHC}(S) \hbox{NH-}(C_3\hbox{-}C_5 \ cycloalkenyl),$$

$$-NHC(S)NH-(C_1-C_5 fluoroalkyl),$$

$$\hbox{-NHC}(s) \hbox{NH-}(c_1\hbox{-}c_5 \ fluoroalkyl)$$

- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)-OH,
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-O-(C_1-C_5 \text{ alkyl}),$
- $-NHC(S)NH-(C_1-C_5 alkyl)-C(O)-(C_1-C_5 alkyl),$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-C(O)-(O-C_1-C_5 \text{ alkyl}),$
- $-NHC(S)NH-(C_1-C_5 alkyl)-NH_2$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-NH-(C_1-C_5 \text{ alkyl}),$
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-(C<sub>1</sub>-C<sub>5</sub> alkyl)<sub>2</sub>
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)-NH<sub>2</sub>
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-C(O)-NH-(C_1-C_5 \text{ alkyl}),$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-C(O)-N-(C_1-C_5 \text{ alkyl})$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-NH-SO_2-(C_1-C_5 \text{ alkyl}),$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-NH-S(O)-(C_1-C_5 \text{ alkyl}),$
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidin-2-one,
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidine,
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-(1-methylpyrrolidin-2-one-3-y1),
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-5-tetrazolyl,
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-SO_2-(C_1-C_5 \text{ alkyl}),$
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-NH<sub>2</sub>
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-SO_2-NH-(C_1-C_5 \text{ alkyl}),$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-SO_2-N-(C_1-C_5 \text{ alkyl})_2$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl}),$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-S(O)-NH_2$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-S(O)-NH-(C_1-C_5 \text{ alkyl}),$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-S(O)-N-(C_1-C_5 \text{ alkyl})_2$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-P(O)-(O-C_1-C_5 \text{ alkyl})_2$
- -NHC(O)NH<sub>2</sub>,
- -NHC(O)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- $-NHC(O)N-(C_1-C_5 \text{ alkyl})_2$ ,

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-NHC(O)NH-(C2-C5 alkenyl),
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$$-NHC(O)NH-(C_1-C_5 \text{ alkyl})-NH_2$$

-NHC(O)NH-(
$$C_1$$
- $C_5$  alkyl)-N-( $C_1$ - $C_5$  alkyl)<sub>2</sub>.

$$-NHC(O)NH-(C_1-C_5 alkyl)-NH-(C_1-C_5 alkyl),$$

$$-NHC(O)NH-(C_1-C_5 alkyl)-C(O)-NH-(C_1-C_5 alkyl),$$

$$-NHC(O)NH-(C_1-C_5 alkyl)-C(O)-(C_1-C_5 alkyl),$$

$$\hbox{-NHC}({\rm O})\hbox{NH-}({\rm C}_1\hbox{-}{\rm C}_5 \text{ alkyl})\hbox{-NH-}\hbox{SO}_2\hbox{-}({\rm C}_1\hbox{-}{\rm C}_5 \text{ alkyl}),$$

$$\hbox{-NHC}(O) \hbox{NH-}(C_1\hbox{-}C_5 \ alkyl) \hbox{-N-pyrrolidin-} 2\hbox{-one},$$

$$\hbox{-NHC}(O)\hbox{NH-}(\hbox{$C_1$-$$$}\hbox{$C_5$ alkyl)-C}(O)\hbox{-OH},$$

$$\hbox{-NHC}(O)\hbox{NH-}(C_1\hbox{-}C_5 \hbox{ alkyl})\hbox{-}C(O)\hbox{-}O\hbox{-}(C_1\hbox{-}C_5 \hbox{ alkyl}),$$

$$-NHC(O)NH-(C_1-C_5 alkyl)-SO_2-NH_2$$

$$\hbox{-NHC}(\hbox{O})\hbox{NH-}(\hbox{C}_1\hbox{-C}_5\hbox{ alkyl})\hbox{-SO}_2\hbox{-NH-}(\hbox{C}_1\hbox{-C}_5\hbox{ alkyl}),$$

$$-NHC(O)NH-(C_1-C_5 alkyl)-SO_2-N-(C_1-C_5 alkyl)_2$$

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-NHC(O)NH-(C_1-C_5 alkyl)-P(O)-O-(C_1-C_5 alkyl)_2,
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- -NH<sub>2</sub>,
- $-NH-(C_1-C_5 alkyl),$
- -NH-CH<sub>2</sub>-C(O)OH,
- $-N-(C_1-C_5 \text{ alkyl})_2$
- -NH-C(O)-NH<sub>2</sub>,
- $-NH-C(O)-NH-(C_1-C_5 \text{ alkyl}),$
- -NH-C(O)-N- $(C_1-C_5 \text{ alkyl})_2$ .
- -NH-C(O)-( $C_1$ - $C_5$  alkyl),
- $-NH-SO_2-(C_1-C_5 \text{ alkyl}),$
- $-NH-S(O)-(C_1-C_5 \text{ alkyl}),$
- -N(CH<sub>3</sub>)(OCH<sub>3</sub>),
- $-N(OH)(CH_3),$
- -N-pyrrolidin-2-one,
- -N-pyrrolidine,
- -(1-methylpyrrolidin-2-one-3-yl),
- -CO<sub>2</sub>H,
- -CO<sub>2</sub>Me,
- -CO<sub>2</sub>Et,
- $-C(O)CH_2S(O)Me$ ,
- $-C(O)CH_2S(O)Et$ ,
- $-C(O)CH_2S(O)_2Me$ ,
- $-C(O)CH_2S(O)_2Et$ ,
- $-C(O)CH_2CH_2S(O)Me$ ,
- $-C(O)CH_2CH_2S(O)Et$ ,
- -C(O)CH<sub>2</sub>CH<sub>2</sub>S(O)<sub>2</sub>Me,
- $\hbox{-C(O)CH$_2$CH$_2$S(O)$_2$Et},$
- -C(O)CH(Me)CH2CO2H,
- -C(O)CH(Me)CH2CO2Me,

- -C(O)CH(Me)CH<sub>2</sub>CO<sub>2</sub>Et,
- -C(O)CH(Me)CH<sub>2</sub>CO<sub>2</sub>iPr,
- -C(O)CH(Me)CH2CO2tBu,
- -C(O)CH(Me)CH(Me)CO<sub>2</sub>H,
- -C(O)CH(Me)CH(Me)CO<sub>2</sub>Me,
- -C(O)CH(Me)CH(Me)CO<sub>2</sub>Et,
- -C(O)CH(Me)CH(Me)CO2iPr,
- -C(O)CH(Me)CH(Me)CO2tBu,
- $-C(O)CH(Me)C(Me) _2CO_2H,$
- -C(O)CH(Me)C(Me) 2CO<sub>2</sub>Me,
- -C(O)CH(Me)C(Me) 2CO<sub>2</sub>Et,
- -C(O)CH(Me)C(Me) 2CO2iPr,
- -C(O)CH(Me)C(Me) 2CO2tBu,
- -C(O)CH(Me)CH(Et)CO<sub>2</sub>H,
- -C(O)CH(Me)CH(Et)CO<sub>2</sub>Me,
- -C(O)CH(Me)CH(Et)CO<sub>2</sub>Et,
- -C(O)CH(Me)CH(Et)CO2iPr,
- -C(O)CH(Me)CH(Et)CO2tBu,
- -C(O)C(O)OH,
- $-C(O)C(O)NH_2$ ,
- -C(O)C(O)NHMe,
- $-C(O)C(O)NMe_2$ ,
- -C(O)NH<sub>2</sub>,
- $-C(O)NMe_2$ ,
- $-C(O)NH-CH_2-C(O)OH$ ,
- -C(O)NH-CH<sub>2</sub>-C(O)OMe,
- $-C(O)NH-CH_2-C(O)OEt$ ,
- -C(O)NH-CH<sub>2</sub>-C(O)OiPr,
- -C(O)NH-CH<sub>2</sub>-C(O)OtBu,
- -C(O)NH-CH(Me)-C(O)OH,

- -C(O)NH-CH(Me)-C(O)OMe,
- -C(O)NH-CH(Me)-C(O)OEt,
- -C(O)NH-CH(Me)-C(O)iPr,
- -C(O)NH-CH(Me)-C(O)tBu,
- -C(O)NH-CH(Et)-C(O)OH,
- $-C(O)NH-C(Me)_2-C(O)OH$ ,
- $-C(O)NH-C(Me)_2-C(O)OMe$ ,
- $-C(O)NH-C(Me)_2-C(O)OEt$ ,
- $-C(O)NH-C(Me)_2-C(O)iPr$ ,
- -C(O)NH-C(Me)<sub>2</sub>-C(O)tBu,
- -C(O)NH-CMe(Et)-C(O)OH,
- -C(O)NH-CH(F)-C(O)OH,
- $-C(O)NH-CH(CF_3)-C(O)OH$ ,
- -C(O)NH-CH(OH)-C(O)OH,
- -C(O)NH-CH(cyclopropyl)-C(O)OH,
- -C(O)NH-C(Me)<sub>2</sub>-C(O)OH,
- $-C(O)NH-C(Me)_2-C(O)OH$ ,
- -C(O)NH-CF(Me)-C(O)OH,
- $-C(O)NH-C(Me)(CF_3)-C(O)OH$ ,
- -C(O)NH-C(Me)(OH)-C(O)OH,
- -C(O)NH-C(Me)(cyclopropyl)CO<sub>2</sub>H
- -C(O)NMe-CH<sub>2</sub>-C(O)OH,
- $-C(O)NMe-CH_2-C(O)OMe$ ,
- $-C(O)NMe-CH_2-C(O)OEt$ ,
- -C(O)NMe-CH<sub>2</sub>-C(O)OiPr,
- -C(O)NMe-CH<sub>2</sub>-C(O)tBu,
- $-C(O)NMe-CH_2-C(O)OH$ ,
- -C(O)NMe-CH(Me)-C(O)OH,
- -C(O)NMe-CH(F)-C(O)OH,
- -C(O)NMe-CH(CF<sub>3</sub>)-C(O)OH,
- -C(O)NMe-CH(OH)-C(O)OH,
- -C(O)NMe-CH(cyclopropyl)-C(O)OH,
- $-C(O)NMe-C(Me)_2-C(O)OH$ ,

- -C(O)NMe-CF(Me)-C(O)OH,
- -C(O)NMe-C(Me)(CF<sub>3</sub>)-C(O)OH,
- -C(O)NMe-C(Me)(OH)-C(O)OH,
- -C(O)NMe-C(Me)(cyclopropyl)-C(O)OH,
- -C(O)NHS(O)Me,
- -C(O)NHSO<sub>2</sub>Me,
- -C(O)-NH-5-tetrazolyl,
- -C(O)NHS(O)Me,
- -C(O)NHS(O)Et,
- -C(O)NHSO<sub>2</sub>Me,
- -C(O)NHSO<sub>2</sub>Et,
- -C(O)NHS(O)iPr,
- -C(O)NHSO2iPr,
- -C(O)NHS(O)tBu,
- -C(O)NHSO2tBu,
- -C(O)NHCH2S(O)Me,
- -C(O)NHCH2S(O)Et,
- -C(O)NHCH2SO2Me,
- -C(O)NHCH2SO2Et,
- -C(O)NHCH2CH2S(O)Me,
- $-C(O)NHCH_2CH_2S(O)Et$ ,
- -C(O)NHCH2CH2SO2Me,
- -C(O)NHCH2CH2SO2Et,
- -C(O)N(Me)S(O)Me,
- -C(O)N(Me)SO<sub>2</sub>Me,
- -C(O)-N(Me)-5-tetrazolyl,
- -C(O)N(Me)S(O)Me,
- -C(O)N(Me)S(O)Et,
- -C(O)N(Me)SO<sub>2</sub>Me,
- -C(O)N(Me)SO<sub>2</sub>Et,
- -C(O)N(Me)S(O)iPr,

- -C(O)N(Me))SO2iPr,
- -C(O)N(Me))S(O)tBu,
- -C(O)N(Me)SO<sub>2</sub>tBu,
- $-C(O)N(Me)CH_2S(O)Me$ ,
- $-C(O)N(Me)CH_2S(O)Et$ ,
- -C(O)N(Me)CH<sub>2</sub>SO<sub>2</sub>Me,
- -C(O)N(Me)CH<sub>2</sub>SO<sub>2</sub>Et,
- -C(O)N(Me)CH<sub>2</sub>CH<sub>2</sub>S(O)Me,
- -C(O)N(Me)CH2CH2S(O)Et,
- -C(O)N(Me)CH<sub>2</sub>CH<sub>2</sub>SO<sub>2</sub>Me,
- -C(O)N(Me)CH2CH2SO2Et,
- $-CH_2CO_2H$ ,
- -CH<sub>2</sub>-5-tetrazolyl,
- -CH<sub>2</sub>CO<sub>2</sub>Me,
- -CH<sub>2</sub>CO<sub>2</sub>Et,
- -CH<sub>2</sub>NHS(O)Me,
- -CH2NHS(O)Et,
- -CH<sub>2</sub>NHSO<sub>2</sub>Me,
- -CH2NHSO2Et,
- -CH<sub>2</sub>NHS(O)iPr,
- -CH<sub>2</sub>NHSO<sub>2</sub>iPr,
- -CH2NHS(O)tBu,
- -CH<sub>2</sub>NHSO<sub>2</sub>tBu,
- -CH<sub>2</sub>NHCH<sub>2</sub>CH<sub>2</sub>SO<sub>2</sub>CH<sub>3</sub>,
- -CH2NH(CH2CO2H),
- -CH<sub>2</sub>N(C(O)Me)(CH<sub>2</sub>CO<sub>2</sub>H),
- -CH<sub>2</sub>-N-pyrrolidin-2-one,
- -CH<sub>2</sub>-(1-methylpyrrolidin-2-one-3-yl),
- -CH<sub>2</sub>S(O)Me,

- $-CH_2S(O)Et$ ,
- $-CH_2S(O)_2Me$ ,
- -CH<sub>2</sub>S(O)<sub>2</sub>Et,
- -CH<sub>2</sub>S(O)iPr,
- $-CH_2S(O)_2iPr$ ,
- $-CH_2S(O)tBu$ ,
- $-CH_2S(O)_2tBu$ ,
- -CH<sub>2</sub>CO<sub>2</sub>H, CH<sub>2</sub>C(O)NH<sub>2</sub>,
- $-CH_2C(O)NMe_2$ ,
- -CH<sub>2</sub>C(O)NHMe,
- -CH<sub>2</sub>C(O)-N-pyrrolidine,
- $-CH_2S(O)_2Me$ ,  $CH_2S(O)Me$ ,
- -CH(OH) CO<sub>2</sub>H,
- $-CH(OH)C(O)NH_2$ ,
- -CH(OH)C(O)NHMe,
- -CH(OH)C(O)NMe2,
- -CH(OH)C(O)NEt<sub>2</sub>,
- -CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>H,
- -CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>Me,
- -CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>Et,
- $-CH_2CH_2C(O)NH_2$ ,
- $-CH_2CH_2C(O)NHMe,\\$
- -CH<sub>2</sub>CH<sub>2</sub>C(O)NMe<sub>2</sub>,
- -CH<sub>2</sub>CH<sub>2</sub>-5-tetrazolyl,
- -CH2CH2S(O)2Me,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)Me,
- $-CH_2CH_2S(O)_2Et$ ,
- -CH<sub>2</sub>CH<sub>2</sub>S(O) Et,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)iPr,

-CH<sub>2</sub>CH<sub>2</sub>S(O)<sub>2</sub>iPr,

 $-CH_2CH_2S(O)tBu,\\$ 

 $-CH_2CH_2S(O)_2tBu$ ,

 $-CH_2CH_2S(O)NH_2$ ,

 $-CH_2CH_2S(O)NHMe,$ 

 $-CH_2CH_2S(O)NMe_2,\\$ 

 $-CH_2CH_2S(O)_2NH_2$ ,

 $-CH_2CH_2S(O)_2NHMe$ 

 $-CH_2CH_2S(O)_2NMe_2$ ,

 $-CH_2CH_2CH_2S(O)Me,\\$ 

 $\hbox{-CH}_2\hbox{CH}_2\hbox{CH}_2S(O)\hbox{Et},$ 

-CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>S(O)<sub>2</sub>Me,

 $\hbox{-CH}_2\hbox{CH}_2\hbox{CH}_2S(O)_2\hbox{Et},$ 

CH(Me)CH<sub>2</sub>C(O)OH,

 $-C(Me)_2CH_2C(O)OH$ ,

-5-tetrazolyl,

$$\begin{array}{c|c} O & O \\ \hline \\ C & NH \\ \hline \\ O \\ \end{array} C CH_3$$

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- -1,3,4-oxadiazolin-2-one-5-yl,
- -imidazolidine-2,4-dione-5-yl,
- -isoxazol-3-ol-yl, or
- -1,3,4-oxadiazolin-2-thione-5-yl;

provided that RB is substituted at either the 6 or 7 position of the benzothiophene ring, except that RB is substituted only at the 7 position of the benzothiophene ring when  $Z_{TB}$  is at the 6 position.; and

provided that -( $L_{TB}$ )- $Z_{TB}$  is substituted at either the 5 or 6 position of the benzothiophene ring; and

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provided that RB is substituted at either the 6 or 7 position of the benzothiophene ring, except that RB is substituted only at the 7 position of the benzothiophene ring when the group –  $(L_{TB})$ - $Z_{TB}$  is at the 6 position.; and

provided that RB' is substituted at either the 4 or 5 position of the benzothiophene ring, except that RB' is substituted only at the 5 position of the benzothiophene ring when the group –  $(L_{TB})$ - $Z_{TB}$  is at the 6 position of the phenyl ring; and

provided that RP is substituted at either the 2, or 5 or 6 position of the phenyl ring.

2. (currently amended) A compound or a pharmaceutically acceptable salt or an ester prodrug derivative thereof represented by formula (IB):

wherein

R and R' are independently C<sub>1</sub>-C<sub>5</sub> alkyl, C<sub>1</sub>-C<sub>5</sub> fluoroalkyl, or together R and R' form a substituted or unsubstituted, saturated or unsaturated carbocyclic ring having from 3 to 8 carbon atoms;

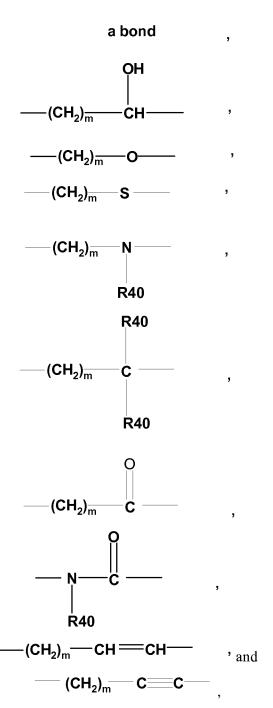
RP, RB<sub>4</sub>, RT<sub>3</sub>, and RB are independently selected from the group consisting of hydrogen, halo,  $C_1$ - $C_5$  alkyl,  $C_1$ - $C_5$  fluoroalkyl, -O- $C_1$ - $C_5$  alkyl, -S- $C_1$ - $C_5$  alkyl, -O- $C_1$ - $C_5$  fluoroalkyl, -CN, -NO<sub>2</sub>, acetyl, -S- $C_1$ - $C_5$  fluoroalkyl,  $C_2$ - $C_5$  alkenyl,  $C_3$ - $C_5$  cycloalkyl, and  $C_3$ - $C_5$  cycloalkenyl;

RP<sub>3</sub> and RB<sub>7</sub> are independently selected from hydrogen, halo,  $C_1$ - $C_5$  alkyl,  $C_1$ - $C_5$  fluoroalkyl, -O- $C_1$ - $C_5$  alkyl, -S- $C_1$ - $C_5$  alkyl, -O- $C_1$ - $C_5$  fluoroalkyl, -CN, -NO<sub>2</sub>, acetyl, -S- $C_1$ - $C_5$  fluoroalkyl,  $C_2$ - $C_5$  alkenyl,  $C_3$ - $C_5$  cycloalkyl, or  $C_3$ - $C_5$  cycloalkenyl;

 $(L_{P1})$ ,  $(L_{P2})$ , and  $(L_{BT})$  are divalent linking groups independently selected from the group consisting of

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where m is 0, 1, or 2, and each R40 is independently hydrogen,  $C_1$ - $C_5$  alkyl, or  $C_1$ - $C_5$  fluoroalkyl;

Z<sub>P</sub> is

branched C3-C5 alkyl,

3-methyl-3-hydroxypentyl,

3-methyl-3-hydroxypentenyl,

3-methyl-3-hydroxypentynyl,

- 3-ethyl-3-hydroxypentyl,
- 3-ethyl-3-hydroxypentenyl,
- 3-ethyl-3-hydroxypentynyl,
- 3-ethyl-3-hydroxy-4-methylpentyl,
- 3-ethyl-3-hydroxy-4-methylpentenyl,
- 3-ethyl-3-hydroxy-4-methylpentynyl,
- 3-propyl-3-hydroxypentyl,
- 3-propyl-3-hydroxypentenyl,
- 3-propyl-3-hydroxypentynyl,
- 1-hydroxy-2-methyl-1-(methylethyl)propyl,
- 2-methyl-3-hydroxy-4-dimethylpentyl,
- 2-methyl-3-hydroxy-3-ethylpentyl,
- 2-ethyl-3-hydroxy-3-ethylpentyl,
- 2-ethyl-3-hydroxy-4-dimethylpentyl,
- 3-methyl-3-hydroxy-4,4-dimethylpentyl,
- 3-methyl-3-hydroxy-4,4-dimethylpentenyl,
- 3-methyl-3-hydroxy-4,4-dimethylpentyl,
- 3-ethyl-3-hydroxy-4,4-dimethylpentynyl,
- 3-ethyl-3-hydroxy-4,4-dimethylpentenyl,
- 3-ethyl-3-hydroxy-4,4-dimethylpentynyl,
- 1-hydroxycycyclopentenyl,
- 1-hydroxycyclohexenyl,
- 1-hydroxycycloheptenyl,
- 1-hydroxycyclooctenyl,
- 1-hydroxycyclopropyl,
- 1-hydroxycyclobutyl,
- 1-hydroxycyclopentyl,
- 1-hydroxycyclohexyl,
- 2-oxocyclohexyloxy,
- 2-oxocyclohexylmethyl,
- 3-methyl-2-oxocyclohexyloxy,
- 3-methyl-2-oxocyclohexylmethyl,
- 3,3-dimethyl-2-oxocyclohexyloxy,
- 3,3-dimethyl-2-oxocyclohexylmethyl,

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2-hydroxycyclohexyloxy,

2-hydroxycyclohexylmethyl,

3-methyl-2-hydroxycyclohexyloxy,

3-methyl-2-hydroxycyclohexylmethyl,

3,3-dimethyl-2-hydroxycyclohexyloxy,

3,3-dimethyl-2-hydroxycyclohexylmethyl,

1-hydroxycycloheptyl, or

1-hydroxycyclooctyl;

# provided, however, that when

Z<sub>P</sub> is

3-methyl-3-hydroxypentyl,

3-methyl-3-hydroxypentenyl,

3-methyl-3-hydroxypentynyl,

3-ethyl-3-hydroxypentyl,

3-ethyl-3-hydroxypentenyl,

3-ethyl-3-hydroxypentynyl,

3-ethyl-3-hydroxy-4-methylpentyl,

3-ethyl-3-hydroxy-4-methylpentenyl,

3-ethyl-3-hydroxy-4-methylpentynyl,

3-propyl-3-hydroxypentyl,

3-propyl-3-hydroxypentenyl,

3-propyl-3-hydroxypentynyl,

3-methyl-3-hydroxy-4,4-dimethylpentyl,

3-methyl-3-hydroxy-4,4-dimethylpentenyl,

3-methyl-3-hydroxy-4,4-dimethylpentyl,

3-ethyl-3-hydroxy-4,4-dimethylpentynyl,

3-ethyl-3-hydroxy-4,4-dimethylpentenyl,

3-ethyl-3-hydroxy-4,4-dimethylpentynyl,

2-methyl-3-hydroxy-4-dimethylpentyl,

2-methyl-3-hydroxy-3-ethylpentyl,

2-ethyl-3-hydroxy-3-ethylpentyl,

2-ethyl-3-hydroxy-4-dimethylpentyl, or

1-hydroxy-2-methyl-1-(methylethyl)propyl;

then  $(L_{P1})$  and  $(L_{P2})$  combine as a bond;

## **Z**<sub>BT</sub> is selected from

$$-O-(C_1-C_5 \text{ alkyl}),$$

$$-O-(C_1-C_5 \text{ alkyl})-(O)-(C_1-C_5 \text{ alkyl}),$$

$$-O-(C_1-C_5 \text{ alkyl}) \text{ NH}_2$$

$$-O-(C_1-C_5 \text{ alkyl})-NH-(C_1-C_5 \text{ alkyl})_2$$

$$-O-(C_1-C_5 \text{ alkyl})-C(O)-NH_2$$

$$-O-(C_1-C_5 \text{ alkyl})-C(O)-NH-(C_1-C_5 \text{ alkyl}),$$

$$-O-(C_1-C_5 \text{ alkyl})-C(O)-N-(C_1-C_5 \text{ alkyl})_2$$

$$-O-(C_1-C_5 \text{ alkyl})-C(O)-OH$$
,

$$-O-(C_1-C_5 \text{ alkyl})-C(O)-(C_1-C_5 \text{ alkyl}),$$

$$-O-(C_1-C_5 \text{ alkyl})-C(O)-(O-C_1-C_5 \text{ alkyl}),$$

$$-O-(C_1-C_5 \text{ alkyl})-NH-(C_1-C_5 \text{ alkyl}),$$

$$-O-(C_1-C_5 \text{ alkyl})-N-(C_1-C_5 \text{ alkyl})_2$$

$$-O-(C_1-C_5 \text{ alkyl})-SO_2-(C_1-C_5 \text{ alkyl},)$$

$$-O-(C_1-C_5 \text{ alkyl})-SO_2-NH_2$$

$$-O-(C_1-C_5 \text{ alkyl})-SO_2-NH-(C_1-C_5 \text{ alkyl}),$$

$$-O-(C_1-C_5 \text{ alkyl})-SO_2-N-(C_1-C_5 \text{ alkyl})_2$$

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- $\hbox{-O-}(C_1\hbox{-}C_5 \ alkyl) \hbox{-SO}_2\hbox{-}(C_1\hbox{-}C_5 \ alkyl),$
- $-O-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl})$
- $-O-(C_1-C_5 \text{ alkyl})-S(O)-NH_2$
- $-O-(C_1-C_5 \text{ alkyl})-S(O)-NH-(C_1-C_5 \text{ alkyl}),$
- $-O-(C_1-C_5 \text{ alkyl})-S(O)-N-(C_1-C_5 \text{ alkyl})_2$
- $-O-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl}),$
- $-O-(C_1-C_5 \text{ alkyl})-P(O)-(O-C_1-C_5 \text{ alkyl})_2$ ,
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-5-tetrazolyl,
- -O-CH<sub>2</sub>-CO<sub>2</sub>H,
- -O-CH<sub>2</sub>-5-tetrazolyl,
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- -O-C(O)-NH<sub>2</sub>,
- -O-C(O)-N-(CH<sub>3</sub>)<sub>2</sub>,
- $-O-C(S)-N-(CH_3)_2$ ,
- $-O-C(O)-O-(C_1-C_5 \text{ alkyl}),$
- -O-(5-tetrazolyl),
- $-O-SO_2-(C_1-C_5 alkyl,)$
- -O-SO<sub>2</sub>-NH<sub>2</sub>,
- $-O-SO_2-NH-(C_1-C_5 alkyl)$ ,
- $-O-SO_2-N-(C_1-C_5 \text{ alkyl})_2$ ,
- $-O-S(O)-(C_1-C_5 \text{ alkyl,})$
- $-O-S(O)-NH_2$ ,
- $-O-S(O)-NH-(C_1-C_5 alkyl),$
- $-O-S(O)-N-(C_1-C_5 \text{ alkyl})_2$ ,
- $-S-(C_1-C_5 \text{ alkyl}),$
- -S-(C<sub>2</sub>-C<sub>5</sub> alkenyl),
- -S-(C<sub>3</sub>-C<sub>5</sub> cycloalkyl),
- -S-(C<sub>3</sub>-C<sub>5</sub> cycloalkenyl),
- -S-(C<sub>1</sub>-C<sub>5</sub> fluoroalkyl),

- -S-(C<sub>1</sub>-C<sub>5</sub> hydroxyalkyl),
- -S-(C<sub>1</sub>-C<sub>5</sub> alkyl)-phenyl,
- -S-(C<sub>1</sub>-C<sub>5</sub> alkyl)-O-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- $-S-(C_1-C_5 \text{ alkyl})-C(O)-OH$ ,
- $-S-(C_1-C_5 \text{ alkyl})-C(O)-(C_1-C_5 \text{ alkyl}),$
- $-S-(C_1-C_5 \text{ alkyl})-C(O)-O-(C_1-C_5 \text{ alkyl}),$
- -S-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)-NH<sub>2</sub>
- $-S-(C_1-C_5 \text{ alkyl})-C(O)-NH-(C_1-C_5 \text{ alkyl}),$
- $-S-(C_1-C_5 \text{ alkyl})-C(O)-N-(C_1-C_5 \text{ alkyl})_2$
- -S-(C<sub>1</sub>-C<sub>5</sub> alkyl) NH<sub>2</sub>.
- $-S-(C_1-C_5 \text{ alkyl})-NH-(C_1-C_5 \text{ alkyl}),$
- -S-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-(C<sub>1</sub>-C<sub>5</sub> alkyl)<sub>2</sub>
- -S-(C<sub>1</sub>-C<sub>5</sub> alkyl)-NH-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- -S-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidin-2-one,
- -S-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidine,
- -S-(C<sub>1</sub>-C<sub>5</sub> alkyl)-(1-methylpyrrolidin-2-one-3-yl),
- $-S-(C_1-C_5 \text{ alkyl})-SO_2-(C_1-C_5 \text{ alkyl}),$
- $-S-(C_1-C_5 \text{ alkyl})-SO_2-NH_2$
- -S-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-NH-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- -S-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-N-(C<sub>1</sub>-C<sub>5</sub> alkyl)<sub>2</sub>,
- -S-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- $-S-(C_1-C_5 \text{ alkyl})-P(O)-(O-C_1-C_5 \text{ alkyl})_2$ ,
- -S-(C<sub>1</sub>-C<sub>5</sub> alkyl)-5-tetrazolyl,
- $-S-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl}),$
- $-S-(C_1-C_5 \text{ alkyl})-S(O)-NH_2$
- $-S-(C_1-C_5 \text{ alkyl})-S(O)-NH-(C_1-C_5 \text{ alkyl}),$
- $-S-(C_1-C_5 \text{ alkyl})-S(O)-N-(C_1-C_5 \text{ alkyl})_2$ ,
- $-S-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl}),$
- $-SO_2-(C_1-C_5 \text{ alkyl}),$

- -SO<sub>2</sub>-(C<sub>2</sub>-C<sub>5</sub> alkenyl),
- -SO<sub>2</sub>-(C<sub>3</sub>-C<sub>5</sub> cycloalkyl),
- -SO<sub>2</sub>-(C<sub>3</sub>-C<sub>5</sub> cycloalkenyl),
- $-SO_2-(C_1-C_5 \text{ hydroxyalkyl}),$
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> fluoroalkyl),
- $-SO_2-(C_1-C_5)$ -phenyl,
- $-SO_2-NH_2$
- $-SO_2$ -NH-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- -SO<sub>2</sub>-NH-CH<sub>2</sub>-C(O)OH,
- $-SO_2$ -NH-CH<sub>2</sub>-C(O)(O-C<sub>1</sub>-C<sub>5</sub> alkyl),
- -SO<sub>2</sub>-NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)OH,
- $-SO_2$ -NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)(O-C<sub>1</sub>-C<sub>5</sub> alkyl),
- -SO<sub>2</sub>-NHC(O)-(C<sub>3</sub>-C<sub>6</sub> cycloalkyl),
- $-SO_2$ -NH-C(O)-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- $-SO_2-N-(C_1-C_5 \text{ alkyl})_2$
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl)-O-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- $-SO_2-(C_1-C_5 \text{ alkyl}) \text{ NH}_2$
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl)-NH-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-(C<sub>1</sub>-C<sub>5</sub> alkyl)<sub>2</sub>
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)-NH<sub>2</sub>
- $-SO_2-(C_1-C_5 \text{ alkyl})-C(O)-NH-(C_1-C_5 \text{ alkyl}),$
- $-SO_2-(C_1-C_5 \text{ alkyl})-C(O)-N-(C_1-C_5 \text{ alkyl})_2$
- $-SO_2-(C_1-C_5 \text{ alkyl})-NH-SO_2-(C_1-C_5 \text{ alkyl}),$
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidin-2-one,
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidine,
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl)-(1-methylpyrrolidin-2-one-3-yl),
- $-SO_2$ -(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)-O-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- $-SO_2-(C_1-C_5 alkyl)-C(O)-OH$ ,

- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl)-5-tetrazolyl,
- $-SO_2-(C_1-C_5 \text{ alkyl})-SO_2-(C_1-C_5 \text{ alkyl}),$
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-NH<sub>2</sub>
- $-SO_2-(C_1-C_5 \text{ alkyl})-SO_2-NH-(C_1-C_5 \text{ alkyl}),$
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-N-(C<sub>1</sub>-C<sub>5</sub> alkyl)<sub>2</sub>
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- $-SO_2-(C_1-C_5 \text{ alkyl})-P(O)-(O-C_1-C_5 \text{ alkyl})_2$ ,
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- -SO<sub>2</sub>-(C<sub>2</sub>-C<sub>5</sub> alkenyl),
- -SO<sub>2</sub>-(C<sub>3</sub>-C<sub>5</sub> cycloalkyl),
- -SO<sub>2</sub>-(C<sub>3</sub>-C<sub>5</sub> cycloalkenyl),
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> hydroxyalkyl),
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> fluoroalkyl),
- $-SO_2-(C_1-C_5)$ -phenyl,
- $-SO_2-N=CHN(C_1-C_5 \text{ alkyl})$  2.
- -S(O)-NH<sub>2</sub>
- $-S(O)-NH-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-NH-CH_2-C(O)OH$
- $-S(O)-NH-(C_1-C_5 alkyl)-C(O)OH$ ,
- $-S(O)-NH-CH_2-C(O)(O-C_1-C_5 alkyl)$ ,
- $-S(O)-NH-(C_1-C_5 \text{ alkyl})-C(O)(O-C_1-C_5 \text{ alkyl}),$
- -S(O)HC(O)-(C<sub>3</sub>-C<sub>6</sub> cycloalkyl),
- $-S(O)-NH-C(O)-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-N-(C_1-C_5 \text{ alkyl})_2$
- $-S(O)-(C_1-C_5 \text{ alkyl})-O-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-(O-C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-NH-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-N-(C_1-C_5 \text{ alkyl})_2$

$$-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-NH_2$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-NH-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-N-(C_1-C_5 \text{ alkyl})_2$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-NH-S(O)-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-(O-C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-OH$$
,

$$-S(O)-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-SO_2-NH_2$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-S(O)-NH_2$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-SO_2-NH-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-S(O)-NH-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-SO_2-N-(C_1-C_5 \text{ alkyl})_2$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-S(O)-N-(C_1-C_5 \text{ alkyl})_2$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-SO_2-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-P(O)-(O-C_1-C_5 \text{ alkyl})_2$$
,

$$-S(O)-N=CHN(C_1-C_5 \text{ alkyl})$$
 2

$$-NHC(S)NH-(C_1-C_5 alkyl),$$

$$-NHC(S)N-(C_1-C_5 \text{ alkyl})_2$$
,

- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> fluoroalkyl),
- -NHC(S)NH-C<sub>1</sub>-C<sub>5</sub> hydroxyalkyl,
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> fluoroalkyl)
- -NHC(S)NH-phenyl,
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)-OH,
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-O-(C_1-C_5 \text{ alkyl}),$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-C(O)-(C_1-C_5 \text{ alkyl}),$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-C(O)-(O-C_1-C_5 \text{ alkyl}),$
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-NH<sub>2</sub>
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-NH-(C_1-C_5 \text{ alkyl}),$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-N-(C_1-C_5 \text{ alkyl})_2$
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)-NH<sub>2</sub>
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-C(O)-NH-(C_1-C_5 \text{ alkyl}),$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-C(O)-N-(C_1-C_5 \text{ alkyl})_2$
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-NH-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-NH-S(O)-(C_1-C_5 \text{ alkyl}),$
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidin-2-one,
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidine,
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-(1-methylpyrrolidin-2-one-3-yl),
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-5-tetrazolyl,
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-SO_2-(C_1-C_5 \text{ alkyl}),$
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-NH<sub>2</sub>.
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-SO_2-NH-(C_1-C_5 \text{ alkyl}),$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-SO_2-N-(C_1-C_5 \text{ alkyl})_2$
- $-NHC(S)NH-(C_1-C_5 alkyl)-S(O)-(C_1-C_5 alkyl),$
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-S(O)-NH<sub>2</sub>
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-S(O)-NH-(C_1-C_5 \text{ alkyl}),$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-S(O)-N-(C_1-C_5 \text{ alkyl})$
- $-NHC(S)NH-(C_1-C_5 alkyl)-P(O)-(O-C_1-C_5 alkyl)_2$ ,

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-NHC(O)NH<sub>2</sub>,
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$$-NHC(O)N-(C_1-C_5 \text{ alkyl})_2$$
,

$$-NHC(O)NH-(C_1-C_5 \text{ alkyl})-NH_2$$

$$-NHC(O)NH-(C_1-C_5 alkyl)-NH-(C_1-C_5 alkyl),$$

$$\hbox{-NHC}(O)\hbox{NH-}(C_1\hbox{-}C_5 \ alkyl)\hbox{-}C(O)\hbox{-NH-}(C_1\hbox{-}C_5 \ alkyl),$$

$$-NHC(O)NH-(C_1-C_5 \text{ alkyl})-C(O)-N-(C_1-C_5 \text{ alkyl})_2$$

$$\hbox{-NHC}(O)\hbox{NH-}(C_1\hbox{-}C_5 \ alkyl)\hbox{-}C(O)\hbox{-}(C_1\hbox{-}C_5 \ alkyl),$$

-NHC(O)NH-(
$$C_1$$
- $C_5$  alkyl)-NH-SO<sub>2</sub>-( $C_1$ - $C_5$  alkyl),

$$\hbox{-NHC}(O) \hbox{NH-}(C_1\hbox{-}C_5 \ alkyl) \hbox{-}$$

$$\hbox{-NHC}(O)\hbox{NH-}(C_1\hbox{-}C_5\ alkyl)\hbox{-}5\hbox{-}tetrazolyl,$$

$$\hbox{-NHC}(O)\hbox{NH-}(C_1\hbox{-}C_5 \ alkyl)\hbox{-SO}_2\hbox{-}(C_1\hbox{-}C_5 \ alkyl),$$

- -NHC(O)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-NH<sub>2</sub>
- -NHC(O)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-NH-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- -NHC(O)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-N-(C<sub>1</sub>-C<sub>5</sub> alkyl)<sub>2</sub>
- $-NHC(O)NH-(C_1-C_5 alkyl)-P(O)-O-(C_1-C_5 alkyl)_2$ ,
- -NH<sub>2</sub>.
- $-NH-(C_1-C_5 alkyl),$
- -NH-CH<sub>2</sub>-C(O)OH,
- $-N-(C_1-C_5 \text{ alkyl})_2$
- $-NH-C(O)-NH_2$ ,
- $-NH-C(O)-NH-(C_1-C_5 \text{ alkyl}),$
- -NH-C(O)-N- $(C_1-C_5 \text{ alkyl})_2$ .
- -NH-C(O)-( $C_1$ - $C_5$  alkyl),
- -NH-SO<sub>2</sub>-( $C_1$ - $C_5$  alkyl),
- $-NH-S(O)-(C_1-C_5 \text{ alkyl}),$
- $-N(CH_3)(OCH_3),$
- -N(OH)(CH<sub>3</sub>),
- -N-pyrrolidin-2-one,
- -N-pyrrolidine,
- -(1-methylpyrrolidin-2-one-3-yl),
- -CO<sub>2</sub>H,
- -CO<sub>2</sub>Me,
- -CO<sub>2</sub>Et,
- -C(O)CH<sub>2</sub>S(O)Me,
- $-C(O)CH_2S(O)Et$ ,
- $-C(O)CH_2S(O)_2Me$ ,
- $-C(O)CH_2S(O)_2Et$ ,
- $-C(O)CH_2CH_2S(O)Me$ ,
- -C(O)CH2CH2S(O)Et,
- -C(O)CH2CH2S(O)2Me,

- $-C(O)CH_2CH_2S(O)_2Et$ ,
- -C(O)CH(Me)CH<sub>2</sub>CO<sub>2</sub>H,
- -C(O)CH(Me)CH2CO2Me,
- -C(O)CH(Me)CH2CO2Et,
- -C(O)CH(Me)CH<sub>2</sub>CO<sub>2</sub>iPr,
- -C(O)CH(Me)CH2CO2tBu,
- -C(O)CH(Me)CH(Me)CO<sub>2</sub>H,
- -C(O)CH(Me)CH(Me)CO<sub>2</sub>Me,
- -C(O)CH(Me)CH(Me)CO<sub>2</sub>Et,
- -C(O)CH(Me)CH(Me)CO2iPr,
- -C(O)CH(Me)CH(Me)CO2tBu,
- -C(O)CH(Me)C(Me) 2CO2H,
- -C(O)CH(Me)C(Me) 2CO<sub>2</sub>Me,
- -C(O)CH(Me)C(Me) 2CO<sub>2</sub>Et,
- -C(O)CH(Me)C(Me) 2CO2iPr,
- -C(O)CH(Me)C(Me) 2CO2tBu,
- -C(O)CH(Me)CH(Et)CO<sub>2</sub>H,
- -C(O)CH(Me)CH(Et)CO<sub>2</sub>Me,
- -C(O)CH(Me)CH(Et)CO<sub>2</sub>Et,
- -C(O)CH(Me)CH(Et)CO2iPr,
- -C(O)CH(Me)CH(Et)CO2tBu,
- -C(O)C(O)OH,
- $-C(O)C(O)NH_2$ ,
- -C(O)C(O)NHMe,
- $-C(O)C(O)NMe_2$ ,
- -C(O)NH<sub>2</sub>,
- $-C(O)NMe_2$ ,
- $-C(O)NH-CH_2-C(O)OH$ ,
- $-C(O)NH-CH_2-C(O)OMe$ ,
- $-C(O)NH-CH_2-C(O)OEt$ ,

- -C(O)NH-CH<sub>2</sub>-C(O)OiPr,
- $-C(O)NH-CH_2-C(O)OtBu$ ,
- -C(O)NH-CH(Me)-C(O)OH,
- -C(O)NH-CH(Me)-C(O)OMe,
- -C(O)NH-CH(Me)-C(O)OEt,
- -C(O)NH-CH(Me)-C(O)iPr,
- -C(O)NH-CH(Me)-C(O)tBu,
- -C(O)NH-CH(Et)-C(O)OH,
- $-C(O)NH-C(Me)_2-C(O)OH$ ,
- $-C(O)NH-C(Me)_2-C(O)OMe$ ,
- $-C(O)NH-C(Me)_2-C(O)OEt$ ,
- $-C(O)NH-C(Me)_2-C(O)iPr$ ,
- $-C(O)NH-C(Me)_2-C(O)tBu$ ,
- -C(O)NH-CMe(Et)-C(O)OH,
- -C(O)NH-CH(F)-C(O)OH,
- -C(O)NH-CH(CF<sub>3</sub>)-C(O)OH,
- -C(O)NH-CH(OH)-C(O)OH,
- -C(O)NH-CH(cyclopropyl)-C(O)OH,
- $-C(O)NH-C(Me)_2-C(O)OH$ ,
- $-C(O)NH-C(Me)_2-C(O)OH$ ,
- -C(O)NH-CF(Me)-C(O)OH,
- $-C(O)NH-C(Me)(CF_3)-C(O)OH$ ,
- -C(O)NH-C(Me)(OH)-C(O)OH,
- -C(O)NH-C(Me)(cyclopropyl)CO<sub>2</sub>H
- $-C(O)NMe-CH_2-C(O)OH$ ,
- $-C(O)NMe-CH_2-C(O)OMe$ ,
- $-C(O)NMe-CH_2-C(O)OEt$ ,
- -C(O)NMe-CH<sub>2</sub>-C(O)OiPr,
- -C(O)NMe-CH<sub>2</sub>-C(O)tBu,
- -C(O)NMe-CH<sub>2</sub>-C(O)OH,
- -C(O)NMe-CH(Me)-C(O)OH,
- -C(O)NMe-CH(F)-C(O)OH,
- -C(O)NMe-CH(CF<sub>3</sub>)-C(O)OH,

- -C(O)NMe-CH(OH)-C(O)OH,
- -C(O)NMe-CH(cyclopropyl)-C(O)OH,
- -C(O)NMe-C(Me)<sub>2</sub>-C(O)OH,
- -C(O)NMe-CF(Me)-C(O)OH,
- $-C(O)NMe-C(Me)(CF_3)-C(O)OH$ ,
- -C(O)NMe-C(Me)(OH)-C(O)OH,
- -C(O)NMe-C(Me)(cyclopropyl)-C(O)OH,
- -C(O)NHS(O)Me,
- -C(O)NHSO<sub>2</sub>Me,
- -C(O)-NH-5-tetrazolyl,
- -C(O)NHS(O)Me,
- -C(O)NHS(O)Et,
- -C(O)NHSO<sub>2</sub>Me,
- -C(O)NHSO<sub>2</sub>Et,
- -C(O)NHS(O)iPr,
- -C(O)NHSO2iPr,
- -C(O)NHS(O)tBu,
- -C(O)NHSO2tBu,
- -C(O)NHCH2S(O)Me,
- -C(O)NHCH2S(O)Et,
- -C(O)NHCH2SO2Me,
- -C(O)NHCH2SO2Et,
- -C(O)NHCH2CH2S(O)Me,
- -C(O)NHCH2CH2S(O)Et,
- -C(O)NHCH2CH2SO2Me,
- -C(O)NHCH<sub>2</sub>CH<sub>2</sub>SO<sub>2</sub>Et,
- -C(O)N(Me)S(O)Me,
- $-C(O)N(Me)SO_2Me$ ,
- -C(O)-N(Me)-5-tetrazolyl,
- -C(O)N(Me)S(O)Me,
- -C(O)N(Me)S(O)Et,

- -C(O)N(Me)SO<sub>2</sub>Me,
  - -C(O)N(Me)SO<sub>2</sub>Et,
  - -C(O)N(Me)S(O)iPr,
  - $-C(O)N(Me))SO_2iPr$ ,
  - -C(O)N(Me))S(O)tBu,
  - -C(O)N(Me)SO2tBu,
  - $-C(O)N(Me)CH_2S(O)Me$ ,
  - $-C(O)N(Me)CH_2S(O)Et$ ,
  - $-C(O)N(Me)CH_2SO_2Me,$
  - -C(O)N(Me)CH<sub>2</sub>SO<sub>2</sub>Et,
  - $-C(O)N(Me)CH_2CH_2S(O)Me$ ,
  - -C(O)N(Me)CH<sub>2</sub>CH<sub>2</sub>S(O)Et,
  - -C(O)N(Me)CH2CH2SO2Me,
  - -C(O)N(Me)CH<sub>2</sub>CH<sub>2</sub>SO<sub>2</sub>Et,
  - $-CH_2CO_2H$ ,
  - -CH<sub>2</sub>-5-tetrazolyl,
  - -CH<sub>2</sub>CO<sub>2</sub>Me,
  - -CH<sub>2</sub>CO<sub>2</sub>Et,
  - -CH<sub>2</sub>NHS(O)Me,
  - -CH2NHS(O)Et,
  - -CH<sub>2</sub>NHSO<sub>2</sub>Me,
  - -CH2NHSO2Et,
  - -CH<sub>2</sub>NHS(O)iPr,
  - -CH2NHSO2iPr,
  - -CH2NHS(O)tBu,
  - -CH2NHSO2tBu,
  - -CH<sub>2</sub>NHCH<sub>2</sub>CH<sub>2</sub>SO<sub>2</sub>CH<sub>3</sub>,
  - -CH2NH(CH2CO2H),
  - $-CH_2N(C(O)Me)(CH_2CO_2H),$

- -CH<sub>2</sub>-N-pyrrolidin-2-one,
- -CH<sub>2</sub>-(1-methylpyrrolidin-2-one-3-yl),
- -CH<sub>2</sub>S(O)Me,
- -CH<sub>2</sub>S(O)Et,
- $-CH_2S(O)_2Me$ ,
- -CH<sub>2</sub>S(O)<sub>2</sub>Et,
- -CH<sub>2</sub>S(O)iPr,
- -CH<sub>2</sub>S(O)<sub>2</sub>iPr,
- $-CH_2S(O)tBu$ ,
- -CH<sub>2</sub>S(O)<sub>2</sub>tBu,
- -CH<sub>2</sub>CO<sub>2</sub>H, CH<sub>2</sub>C(O)NH<sub>2</sub>,
- -CH<sub>2</sub>C(O)NMe<sub>2</sub>,
- -CH<sub>2</sub>C(O)NHMe,
- -CH<sub>2</sub>C(O)-N-pyrrolidine,
- -CH<sub>2</sub>S(O)<sub>2</sub>Me, CH<sub>2</sub>S(O)Me,
- -CH(OH) CO<sub>2</sub>H,
- -CH(OH)C(O)NH<sub>2</sub>,
- -CH(OH)C(O)NHMe,
- -CH(OH)C(O)NMe2,
- -CH(OH)C(O)NEt<sub>2</sub>,
- $-CH_2CH_2CO_2H$ ,
- $\hbox{-CH}_2\hbox{CH}_2\hbox{CO}_2\hbox{Me},$
- -CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>Et,
- $-CH_2CH_2C(O)NH_2$ ,
- -CH<sub>2</sub>CH<sub>2</sub>C(O)NHMe,
- -CH2CH2C(O)NMe2,
- -CH<sub>2</sub>CH<sub>2</sub>-5-tetrazolyl,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)<sub>2</sub>Me,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)Me,

- $-CH_2CH_2S(O)_2Et$ ,
- $-CH_2CH_2S(O)$  Et,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)iPr,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)<sub>2</sub>iPr,
- $-CH_2CH_2S(O)tBu,\\$
- $-CH_2CH_2S(O)_2tBu,\\$
- $-CH_2CH_2S(O)NH_2$ ,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)NHMe,
- $-CH_2CH_2S(O)NMe_2$ ,
- $-CH_2CH_2S(O)_2NH_2,\\$
- $\hbox{-CH}_2\hbox{CH}_2\hbox{S}(O)_2\hbox{NHMe}$
- -CH<sub>2</sub>CH<sub>2</sub>S(O)<sub>2</sub>NMe<sub>2</sub>,
- $-CH_2CH_2CH_2S(O)Me,\\$
- $-CH_2CH_2CH_2S(O)Et$ ,
- $-CH_2CH_2CH_2S(O)_2Me$ ,
- -CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>S(O)<sub>2</sub>Et,
- CH(Me)CH<sub>2</sub>C(O)OH,
- $-C(Me)_2CH_2C(O)OH$ ,
  - -5-tetrazolyl,

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- -1,3,4-oxadiazolin-2-one-5-yl,
- -imidazolidine-2,4-dione-5-yl,
- -isoxazol-3-ol-yl, or
- -1,3,4-oxadiazolin-2-thione-5-yl;

provided that RP is substituted at either the 2, 5, or 6 position of the phenyl ring.

3. (currently amended) A compound or a pharmaceutically acceptable salt or an ester prodrug derivative thereof represented by formula (IC):

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$$Z_{p} = \begin{pmatrix} L_{p_{2}} \end{pmatrix} \begin{pmatrix} L_{p_{1}} \end{pmatrix} \begin{pmatrix} L_{p$$

wherein

R and R' are independently C<sub>1</sub>-C<sub>5</sub> alkyl, C<sub>1</sub>-C<sub>5</sub> fluoroalkyl, or together R and R' form a substituted or unsubstituted, saturated or unsaturated carbocyclic ring having from 3 to 8 carbon atoms;

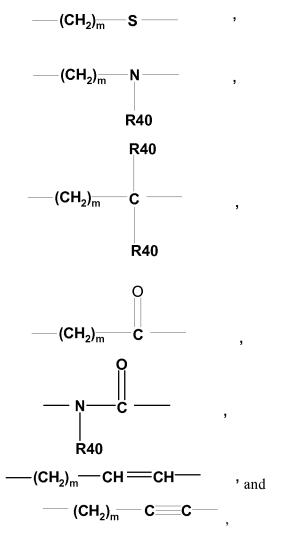
RP, RB<sub>4</sub>, RT<sub>3</sub> and RB are independently selected from the group consisting of hydrogen, halo,  $C_1$ - $C_5$  alkyl,  $C_1$ - $C_5$  fluoroalkyl, -O- $C_1$ - $C_5$  alkyl, -S- $C_1$ - $C_5$  alkyl, -O- $C_1$ - $C_5$  fluoroalkyl, -CN, -NO<sub>2</sub>, acetyl, -S- $C_1$ - $C_5$  fluoroalkyl,  $C_2$ - $C_5$  alkenyl,  $C_3$ - $C_5$  cycloalkyl, and  $C_3$ - $C_5$  cycloalkenyl;

RP<sub>3</sub> and RB<sub>7</sub> are independently selected from hydrogen, halo, C<sub>1</sub>-C<sub>5</sub> alkyl, C<sub>1</sub>-C<sub>5</sub> fluoroalkyl, -O-C<sub>1</sub>-C<sub>5</sub> alkyl, -S-C<sub>1</sub>-C<sub>5</sub> alkyl, -O-C<sub>1</sub>-C<sub>5</sub> fluoroalkyl, -CN, -NO<sub>2</sub>, acetyl, -S-C<sub>1</sub>-C<sub>5</sub> fluoroalkyl, C<sub>2</sub>-C<sub>5</sub> alkenyl, C<sub>3</sub>-C<sub>5</sub> cycloalkyl, or C<sub>3</sub>-C<sub>5</sub> cycloalkenyl;

 $(L_{P1})$ ,  $(L_{P2})$ , and  $(L_{BT})$  are divalent linking groups independently selected from the group consisting of

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where m is 0, 1, or 2, and each R40 is independently hydrogen, C<sub>1</sub>-C<sub>5</sub> alkyl, or C<sub>1</sub>-C<sub>5</sub> fluoroalkyl;

Z<sub>P</sub> is

branched C3-C5 alkyl, 3-methyl-3-hydroxypentyl, 3-methyl-3-hydroxypentenyl, 3-methyl-3-hydroxypentynyl, 3-ethyl-3-hydroxypentyl, 3-ethyl-3-hydroxypentenyl, 3-ethyl-3-hydroxypentynyl, 3-ethyl-3-hydroxy-4-methylpentyl, 3-ethyl-3-hydroxy-4-methylpentenyl, 3-ethyl-3-hydroxy-4-methylpentynyl,

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3-propyl-3-hydroxypentyl,

3-propyl-3-hydroxypentenyl,

3-propyl-3-hydroxypentynyl,

1-hydroxy-2-methyl-1-(methylethyl)propyl,

2-methyl-3-hydroxy-4-dimethylpentyl,

2-methyl-3-hydroxy-3-ethylpentyl,

2-ethyl-3-hydroxy-3-ethylpentyl,

2-ethyl-3-hydroxy-4-dimethylpentyl,

3-methyl-3-hydroxy-4,4-dimethylpentyl,

3-methyl-3-hydroxy-4,4-dimethylpentenyl,

3-methyl-3-hydroxy-4,4-dimethylpentyl,

3-ethyl-3-hydroxy-4,4-dimethylpentynyl,

3-ethyl-3-hydroxy-4,4-dimethylpentenyl,

3-ethyl-3-hydroxy-4,4-dimethylpentynyl,

1-hydroxycycyclopentenyl,

1-hydroxycyclohexenyl,

1-hydroxycycloheptenyl,

1-hydroxycyclooctenyl,

1-hydroxycyclopropyl,

1-hydroxycyclobutyl,

1-hydroxycyclopentyl,

1-hydroxycyclohexyl,

2-oxocyclohexyloxy,

2-oxocyclohexylmethyl,

3-methyl-2-oxocyclohexyloxy,

3-methyl-2-oxocyclohexylmethyl,

3,3-dimethyl-2-oxocyclohexyloxy,

3,3-dimethyl-2-oxocyclohexylmethyl,

2-hydroxycyclohexyloxy,

2-hydroxycyclohexylmethyl,

3-methyl-2-hydroxycyclohexyloxy,

3-methyl-2-hydroxycyclohexylmethyl,

3,3-dimethyl-2-hydroxycyclohexyloxy,

3,3-dimethyl-2-hydroxycyclohexylmethyl,

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1-hydroxycyclooetyl, or 1-hydroxycyclooetyl;

provided, however, that when

 $Z_P$  is

3-methyl-3-hydroxypentyl,

3-methyl-3-hydroxypentenyl,

3-methyl-3-hydroxypentynyl,

3-ethyl-3-hydroxypentyl,

3-ethyl-3-hydroxypentenyl,

3-ethyl-3-hydroxypentynyl,

3-ethyl-3-hydroxy-4-methylpentyl,

3-ethyl-3-hydroxy-4-methylpentenyl,

3-ethyl-3-hydroxy-4-methylpentynyl,

3-propyl-3-hydroxypentyl,

3-propyl-3-hydroxypentenyl,

3-propyl-3-hydroxypentynyl,

3-methyl-3-hydroxy-4,4-dimethylpentyl,

3-methyl-3-hydroxy-4,4-dimethylpentenyl,

3-methyl-3-hydroxy-4,4-dimethylpentyl,

3-ethyl-3-hydroxy-4,4-dimethylpentynyl,

3-ethyl-3-hydroxy-4,4-dimethylpentenyl,

3-ethyl-3-hydroxy-4,4-dimethylpentynyl,

2-methyl-3-hydroxy-4-dimethylpentyl,

2-methyl-3-hydroxy-3-ethylpentyl,

2-ethyl-3-hydroxy-3-ethylpentyl,

2-ethyl-3-hydroxy-4-dimethylpentyl, or

1-hydroxy-2-methyl-1-(methylethyl)propyl;

then (L<sub>P1</sub>) and (L<sub>P2</sub>) combine as a bond;

## Z<sub>BT</sub> is selected from

 $-O-(C_1-C_5 \text{ alkyl}),$ 

-O-(C2-C5 alkenyl),

-O-(C<sub>3</sub>-C<sub>5</sub> cycloalkyl),

-O-(C<sub>3</sub>-C<sub>5</sub> cycloalkenyl),

- -O-(C<sub>1</sub>-C<sub>5</sub> hydroxyalkyl),
- -O-(C<sub>1</sub>-C<sub>5</sub> fluoroalkyl),
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-phenyl,
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-(O)-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl) NH<sub>2</sub>
- $-O-(C_1-C_5 \text{ alkyl})-NH-(C_1-C_5 \text{ alkyl})_2$
- $-O-(C_1-C_5 \text{ alkyl})-C(O)-NH_2$
- $-O-(C_1-C_5 \text{ alkyl})-C(O)-NH-(C_1-C_5 \text{ alkyl}),$
- $-O-(C_1-C_5 \text{ alkyl})-C(O)-N-(C_1-C_5 \text{ alkyl})_2$
- $-O-(C_1-C_5 \text{ alkyl})-C(O)-OH$ ,
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)-NH-5-tetrazolyl,
- $-O-(C_1-C_5 \text{ alkyl})-C(O)-(C_1-C_5 \text{ alkyl}),$
- $-O-(C_1-C_5 \text{ alkyl})-C(O)-(O-C_1-C_5 \text{ alkyl}),$
- $-O-(C_1-C_5 \text{ alkyl})-NH_2$
- $-O-(C_1-C_5 \text{ alkyl})-NH-(C_1-C_5 \text{ alkyl}),$
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-(C<sub>1</sub>-C<sub>5</sub> alkyl)<sub>2</sub>
- $-O-(C_1-C_5 \text{ alkyl})-NH-SO_2-(C_1-C_5 \text{ alkyl}),$
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidin-2-one,
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidine,
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-(1-methylpyrrolidin-2-one-3-yl),
- $-O-(C_1-C_5 \text{ alkyl})-SO_2-(C_1-C_5 \text{ alkyl})$
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-NH<sub>2</sub>
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-NH-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- $-O-(C_1-C_5 \text{ alkyl})-SO_2-N-(C_1-C_5 \text{ alkyl})_2$
- $-O-(C_1-C_5 \text{ alkyl})-SO_2-(C_1-C_5 \text{ alkyl}),$
- $-O-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl})$
- $-O-(C_1-C_5 \text{ alkyl})-S(O)-NH_2$
- $-O-(C_1-C_5 \text{ alkyl})-S(O)-NH-(C_1-C_5 \text{ alkyl}),$
- $-O-(C_1-C_5 \text{ alkyl})-S(O)-N-(C_1-C_5 \text{ alkyl})_2$

- $-O-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl}),$
- $-O-(C_1-C_5 \text{ alkyl})-P(O)-(O-C_1-C_5 \text{ alkyl})_2$ ,
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-5-tetrazolyl,
- -O-CH<sub>2</sub>-CO<sub>2</sub>H,
- -O-CH<sub>2</sub>-5-tetrazolyl,
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- $-O-C(O)-NH_2$ ,
- -O-C(O)-N-(CH<sub>3</sub>)<sub>2</sub>,
- -O-C(S)-N-(CH<sub>3</sub>)<sub>2</sub>,
- $-O-C(O)-O-(C_1-C_5 \text{ alkyl}),$
- -O-(5-tetrazolyl),
- -O-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl,)
- -O-SO<sub>2</sub>-NH<sub>2</sub>,
- $\hbox{-O-SO}_2\hbox{-NH-}(C_1\hbox{-}C_5 \ alkyl),$
- $-O-SO_2-N-(C_1-C_5 \text{ alkyl})_2$ ,
- $-O-S(O)-(C_1-C_5 \text{ alkyl},)$
- -O-S(O)-NH<sub>2</sub>,
- $-O-S(O)-NH-(C_1-C_5 alkyl),$
- $-O-S(O)-N-(C_1-C_5 \text{ alkyl})_2$ ,
- -S-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- -S-(C2-C5 alkenyl),
- -S-(C3-C5 cycloalkyl),
- -S-(C<sub>3</sub>-C<sub>5</sub> cycloalkenyl),
- -S-(C<sub>1</sub>-C<sub>5</sub> fluoroalkyl),
- -S-(C<sub>1</sub>-C<sub>5</sub> hydroxyalkyl),
- -S-(C<sub>1</sub>-C<sub>5</sub> alkyl)-phenyl,
- $-S-(C_1-C_5 \text{ alkyl})-O-(C_1-C_5 \text{ alkyl}),$
- $-S-(C_1-C_5 \text{ alkyl})-C(O)-OH,$
- -S-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)-(C<sub>1</sub>-C<sub>5</sub> alkyl),

$$-S-(C_1-C_5 \text{ alkyl})-C(O)-O-(C_1-C_5 \text{ alkyl}),$$

$$-S-(C_1-C_5 \text{ alkyl})-C(O)-NH_2$$

$$-S-(C_1-C_5 \text{ alkyl})-C(O)-NH-(C_1-C_5 \text{ alkyl}),$$

$$-S-(C_1-C_5 \text{ alkyl})-C(O)-N-(C_1-C_5 \text{ alkyl})_2$$

$$-S-(C_1-C_5 \text{ alkyl})-NH-(C_1-C_5 \text{ alkyl}),$$

$$-S-(C_1-C_5 \text{ alkyl})-N-(C_1-C_5 \text{ alkyl})_2$$

$$-S-(C_1-C_5 \text{ alkyl})-NH-SO_2-(C_1-C_5 \text{ alkyl}),$$

$$-S-(C_1-C_5 \text{ alkyl})-SO_2-NH-(C_1-C_5 \text{ alkyl}),$$

$$\hbox{-S-}(C_1\hbox{-}C_5 \hbox{ alkyl})\hbox{-P(O)-}(O\hbox{-}C_1\hbox{-}C_5 \hbox{ alkyl})_2\ ,$$

$$-S-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl}),$$

$$-S-(C_1-C_5 \text{ alkyl})-S(O)-NH_2$$

$$-S-(C_1-C_5 \text{ alkyl})-S(O)-NH-(C_1-C_5 \text{ alkyl}),$$

$$-S-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl}),$$

- $-SO_2-(C_1-C_5)$ -phenyl,
- $-SO_2-NH_2$
- $-SO_2$ -NH-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- -SO<sub>2</sub>-NH-CH<sub>2</sub>-C(O)OH,
- $-SO_2$ -NH-CH<sub>2</sub>-C(O)(O-C<sub>1</sub>-C<sub>5</sub> alkyl),
- $-SO_2$ -NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)OH,
- $-SO_2$ -NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)(O-C<sub>1</sub>-C<sub>5</sub> alkyl),
- -SO<sub>2</sub>-NHC(O)-(C<sub>3</sub>-C<sub>6</sub> cycloalkyl),
- $-SO_2$ -NH-C(O)-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- $-SO_2-N-(C_1-C_5 \text{ alkyl})_2$
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl)-O-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- $-SO_2$ -(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- $-SO_2-(C_1-C_5 \text{ alkyl}) \text{ NH}_2$
- $-SO_2$ -(C<sub>1</sub>-C<sub>5</sub> alkyl)-NH-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- $-SO_2-(C_1-C_5 \text{ alkyl})-N-(C_1-C_5 \text{ alkyl})_2$
- $-SO_2-(C_1-C_5 \text{ alkyl})-C(O)-NH_2$
- $-SO_2$ -(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)-NH-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- $-SO_2-(C_1-C_5 \text{ alkyl})-C(O)-N-(C_1-C_5 \text{ alkyl})_2$ ,
- $-SO_2-(C_1-C_5 \text{ alkyl})-NH-SO_2-(C_1-C_5 \text{ alkyl}),$
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidin-2-one,
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidine,
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl)-(1-methylpyrrolidin-2-one-3-yl),
- $-SO_2$ -(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)-O-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- $-SO_2-(C_1-C_5 \text{ alkyl})-C(O)-OH,$
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl)-5-tetrazolyl,
- $-SO_2$ -(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- $-SO_2$ -(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-NH<sub>2</sub>
- $-SO_2-(C_1-C_5 \text{ alkyl})-SO_2-NH-(C_1-C_5 \text{ alkyl}),$
- $-SO_2-(C_1-C_5 \text{ alkyl})-SO_2-N-(C_1-C_5 \text{ alkyl})_2$

$$-SO_2-(C_1-C_5 \text{ alkyl})-P(O)-(O-C_1-C_5 \text{ alkyl})_2$$
,

$$\hbox{-SO}_2\hbox{-}(C_1\hbox{-}C_5)\hbox{-phenyl},$$

$$-SO_2-N=CHN(C_1-C_5 \text{ alkyl})$$
 2.

$$-S(O)-NH2$$

$$-S(O)-NH-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-NH-CH_2-C(O)OH$$

$$-S(O)-NH-(C_1-C_5 alkyl)-C(O)OH$$
,

$$-S(O)-NH-CH_2-C(O)(O-C_1-C_5 \text{ alkyl}),$$

$$-S(O)-NH-(C_1-C_5 \text{ alkyl})-C(O)(O-C_1-C_5 \text{ alkyl}),$$

$$-S(O)HC(O)-(C_3-C_6 \text{ cycloalkyl}),$$

$$-S(O)-NH-C(O)-(C_1-C_5 alkyl),$$

$$-S(O)-N-(C_1-C_5 \text{ alkyl})_2$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-O-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-(O-C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-NH-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-N-(C_1-C_5 \text{ alkyl})_2$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-NH_2$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-NH-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-N-(C_1-C_5 \text{ alkyl})_2$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-NH-SO_2-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-NH-S(O)-(C_1-C_5 \text{ alkyl}),$$

- -S(O)-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidin-2-one,
- -S(O)-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidine,
- -S(O)-(C<sub>1</sub>-C<sub>5</sub> alkyl)-(1-methylpyrrolidin-2-one-3-yl),
- $-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-(O-C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-OH,$
- -S(O)-(C<sub>1</sub>-C<sub>5</sub> alkyl)-5-tetrazolyl,
- -S(O)-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- $-S(O)-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-SO_2-NH_2$
- $-S(O)-(C_1-C_5 \text{ alkyl})-S(O)-NH_2$
- $-S(O)-(C_1-C_5 \text{ alkyl})-SO_2-NH-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-S(O)-NH-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-SO_2-N-(C_1-C_5 \text{ alkyl})_2$
- $-S(O)-(C_1-C_5 \text{ alkyl})-S(O)-N-(C_1-C_5 \text{ alkyl})_2$
- -S(O)-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- $-S(O)-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-P(O)-(O-C_1-C_5 \text{ alkyl})_2$ ,
- $-S(O)-N=CHN(C_1-C_5 \text{ alkyl})$  2
- $-NHC(S)NH_2$
- $-NHC(S)NH-(C_1-C_5 alkyl),$
- $-NHC(S)N-(C_1-C_5 \text{ alkyl})_2$ ,
- -NHC(S)NH-(C2-C5 alkenyl),
- -NHC(S)NH-(C3-C5 cycloalkyl),
- -NHC(S)NH-(C3-C5 cycloalkenyl),
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> fluoroalkyl),
- -NHC(S)NH-C<sub>1</sub>-C<sub>5</sub> hydroxyalkyl,
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> fluoroalkyl)
- -NHC(S)NH-phenyl,
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)-OH,

```
-NHC(S)NH-(C_1-C_5 \text{ alkyl})-O-(C_1-C_5 \text{ alkyl}),
```

$$-NHC(S)NH-(C_1-C_5 alkyl)-C(O)-(C_1-C_5 alkyl),$$

$$-NHC(S)NH-(C_1-C_5 alkyl)-C(O)-(O-C_1-C_5 alkyl),$$

$$-NHC(S)NH-(C_1-C_5 alkyl)-NH-(C_1-C_5 alkyl),$$

$$\hbox{-NHC}(S)\hbox{NH-}(C_1\hbox{-}C_5 \ alkyl)\hbox{-}C(O)\hbox{-NH-}(C_1\hbox{-}C_5 \ alkyl),$$

$$-NHC(S)NH-(C_1-C_5 alkyl)-NH-S(O)-(C_1-C_5 alkyl),$$

$$-NHC(S)NH-(C_1-C_5 alkyl)-SO_2-(C_1-C_5 alkyl),$$

$$-NHC(S)NH-(C_1-C_5 alkyl)-SO_2-NH-(C_1-C_5 alkyl),$$

$$-NHC(S)NH-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl}),$$

$$-NHC(S)NH-(C_1-C_5 alkyl)-S(O)-NH-(C_1-C_5 alkyl),$$

$$-NHC(S)NH-(C_1-C_5 \text{ alkyl})-S(O)-N-(C_1-C_5 \text{ alkyl})_2$$

$$-NHC(S)NH-(C_1-C_5 \text{ alkyl})-P(O)-(O-C_1-C_5 \text{ alkyl})_2$$

$$-NHC(O)NH2$$
,

$$-NHC(O)NH-(C_1-C_5 alkyl),$$

$$-NHC(O)N-(C_1-C_5 \text{ alkyl})_2$$
,

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-NHC(O)NH-(C<sub>3</sub>-C<sub>5</sub> cycloalkenyl),
```

-NHC(O)NH-(
$$C_1$$
- $C_5$  alkyl)-N-( $C_1$ - $C_5$  alkyl)<sub>2</sub>.

$$-NHC(O)NH-(C_1-C_5 \text{ alkyl})-NH_2$$

$$-NHC(O)NH-(C_1-C_5 alkyl)-NH-(C_1-C_5 alkyl),$$

-NHC(O)NH-(
$$C_1$$
- $C_5$  alkyl)-N-( $C_1$ - $C_5$  alkyl)<sub>2</sub>,

$$-NHC(O)NH-(C_1-C_5 alkyl)-C(O)-NH-(C_1-C_5 alkyl),$$

$$-NHC(O)NH-(C_1-C_5 \text{ alkyl})-C(O)-N-(C_1-C_5 \text{ alkyl})_2$$

$$-NHC(O)NH-(C_1-C_5 alkyl)-C(O)-(C_1-C_5 alkyl),$$

$$\hbox{-NHC}(O) \hbox{NH-}(C_1\hbox{-}C_5 \ alkyl) \hbox{-N-pyrrolidin-} 2\hbox{-one},$$

$$-NHC(O)NH-(C_1-C_5 alkyl)-$$

$$\hbox{-NHC}(O)\hbox{NH-}(\hbox{C$_1$-C$_5} \ alkyl)\hbox{-5-tetrazolyl},$$

$$\hbox{-NHC}(O)\hbox{NH-}(\hbox{$C_1$-$$$} \hbox{$C_5$ alkyl})\hbox{-SO}_2\hbox{-}(\hbox{$C_1$-$$$$$$$$} \hbox{$C_5$ alkyl}),$$

$$-NHC(O)NH-(C_1-C_5 \text{ alkyl})-SO_2-NH_{2,}$$

$$- NHC(O)NH-(C_1-C_5 \ alkyl) - SO_2-N-(C_1-C_5 \ alkyl)_{2,}$$

-NH<sub>2</sub>

-NH- $(C_1-C_5 \text{ alkyl})$ ,

-NH-CH<sub>2</sub>-C(O)OH,

 $-N-(C_1-C_5 \text{ alkyl})_2$ 

 $-NH-C(O)-NH_2$ ,

-NH-C(O)-NH-( $C_1$ - $C_5$  alkyl),

 $-NH-C(O)-N-(C_1-C_5 \text{ alkyl})_2$ 

-NH-C(O)-( $C_1$ - $C_5$  alkyl),

-NH-SO<sub>2</sub>-( $C_1$ - $C_5$  alkyl),

-NH-S(O)-( $C_1$ - $C_5$  alkyl),

-N(CH<sub>3</sub>)(OCH<sub>3</sub>),

-N(OH)(CH<sub>3</sub>),

-N-pyrrolidin-2-one,

-N-pyrrolidine,

-(1-methylpyrrolidin-2-one-3-yl),

-CO<sub>2</sub>H,

-CO<sub>2</sub>Me,

-CO<sub>2</sub>Et,

 $-C(O)CH_2S(O)Me$ ,

-C(O)CH<sub>2</sub>S(O)Et,

 $-C(O)CH_2S(O)_2Me$ ,

 $-C(O)CH_2S(O)_2Et$ ,

 $-C(O)CH_2CH_2S(O)Me$ ,

 $-C(O)CH_2CH_2S(O)Et$ ,

 $-C(O)CH_2CH_2S(O)_2Me$ ,

 $-C(O)CH_2CH_2S(O)_2Et$ ,

-C(O)CH(Me)CH<sub>2</sub>CO<sub>2</sub>H,

-C(O)CH(Me)CH<sub>2</sub>CO<sub>2</sub>Me,

-C(O)CH(Me)CH2CO2Et,

-C(O)CH(Me)CH2CO2iPr,

- -C(O)CH(Me)CH2CO2tBu,
- -C(O)CH(Me)CH(Me)CO<sub>2</sub>H,
- -C(O)CH(Me)CH(Me)CO<sub>2</sub>Me,
- -C(O)CH(Me)CH(Me)CO<sub>2</sub>Et,
- -C(O)CH(Me)CH(Me)CO2iPr,
- -C(O)CH(Me)CH(Me)CO2tBu,
- -C(O)CH(Me)C(Me) 2CO<sub>2</sub>H,
- -C(O)CH(Me)C(Me) 2CO2Me,
- -C(O)CH(Me)C(Me) 2CO<sub>2</sub>Et,
- -C(O)CH(Me)C(Me) 2CO2iPr,
- -C(O)CH(Me)C(Me) 2CO2tBu,
- -C(O)CH(Me)CH(Et)CO<sub>2</sub>H,
- -C(O)CH(Me)CH(Et)CO<sub>2</sub>Me,
- -C(O)CH(Me)CH(Et)CO<sub>2</sub>Et,
- -C(O)CH(Me)CH(Et)CO2iPr,
- -C(O)CH(Me)CH(Et)CO2tBu,
- -C(O)C(O)OH,
- $-C(O)C(O)NH_2$ ,
- -C(O)C(O)NHMe,
- -C(O)C(O)NMe2,
- -C(O)NH<sub>2</sub>,
- $-C(O)NMe_2$ ,
- $-C(O)NH-CH_2-C(O)OH$ ,
- $-C(O)NH-CH_2-C(O)OMe$ ,
- $-C(O)NH-CH_2-C(O)OEt$ ,
- -C(O)NH-CH<sub>2</sub>-C(O)OiPr,
- -C(O)NH-CH<sub>2</sub>-C(O)OtBu,
- -C(O)NH-CH(Me)-C(O)OH,
- -C(O)NH-CH(Me)-C(O)OMe,
- -C(O)NH-CH(Me)-C(O)OEt,

- -C(O)NH-CH(Me)-C(O)iPr,
- -C(O)NH-CH(Me)-C(O)tBu,
- -C(O)NH-CH(Et)-C(O)OH,
- $-C(O)NH-C(Me)_2-C(O)OH$ ,
- $-C(O)NH-C(Me)_2-C(O)OMe$ ,
- $-C(O)NH-C(Me)_2-C(O)OEt$ ,
- $-C(O)NH-C(Me)_2-C(O)iPr$ ,
- -C(O)NH-C(Me)2-C(O)tBu,
- -C(O)NH-CMe(Et)-C(O)OH,
- -C(O)NH-CH(F)-C(O)OH,
- $-C(O)NH-CH(CF_3)-C(O)OH$ ,
- -C(O)NH-CH(OH)-C(O)OH,
- -C(O)NH-CH(cyclopropyl)-C(O)OH,
- -C(O)NH-C(Me)<sub>2</sub>-C(O)OH,
- $-C(O)NH-C(Me)_2-C(O)OH$ ,
- -C(O)NH-CF(Me)-C(O)OH,
- -C(O)NH-C(Me)(CF<sub>3</sub>)-C(O)OH,
- -C(O)NH-C(Me)(OH)-C(O)OH,
- -C(O)NH-C(Me)(cyclopropyl)CO<sub>2</sub>H
- -C(O)NMe-CH<sub>2</sub>-C(O)OH,
- $-C(O)NMe-CH_2-C(O)OMe$ ,
- -C(O)NMe-CH<sub>2</sub>-C(O)OEt,
- -C(O)NMe-CH<sub>2</sub>-C(O)OiPr,
- -C(O)NMe-CH<sub>2</sub>-C(O)tBu,
- $-C(O)NMe-CH_2-C(O)OH$ ,
- -C(O)NMe-CH(Me)-C(O)OH,
- -C(O)NMe-CH(F)-C(O)OH,
- -C(O)NMe-CH(CF<sub>3</sub>)-C(O)OH,
- -C(O)NMe-CH(OH)-C(O)OH,
- -C(O)NMe-CH(cyclopropyl)-C(O)OH,
- $-C(O)NMe-C(Me)_2-C(O)OH$ ,
- -C(O)NMe-CF(Me)-C(O)OH,
- $-C(O)NMe-C(Me)(CF_3)-C(O)OH$ ,

- -C(O)NMe-C(Me)(OH)-C(O)OH,
- -C(O)NMe-C(Me)(cyclopropyl)-C(O)OH,
- -C(O)NHS(O)Me,
- -C(O)NHSO<sub>2</sub>Me,
- -C(O)-NH-5-tetrazolyl,
- -C(O)NHS(O)Me,
- -C(O)NHS(O)Et,
- -C(O)NHSO<sub>2</sub>Me,
- -C(O)NHSO<sub>2</sub>Et,
- -C(O)NHS(O)iPr,
- -C(O)NHSO2iPr,
- -C(O)NHS(O)tBu,
- -C(O)NHSO2tBu,
- -C(O)NHCH<sub>2</sub>S(O)Me,
- -C(O)NHCH<sub>2</sub>S(O)Et,
- -C(O)NHCH2SO2Me,
- -C(O)NHCH2SO2Et,
- -C(O)NHCH2CH2S(O)Me,
- $-C(O)NHCH_2CH_2S(O)Et$ ,
- -C(O)NHCH2CH2SO2Me,
- -C(O)NHCH2CH2SO2Et,
- -C(O)N(Me)S(O)Me,
- $-C(O)N(Me)SO_2Me$ ,
- -C(O)-N(Me)-5-tetrazolyl,
- -C(O)N(Me)S(O)Me,
- -C(O)N(Me)S(O)Et,
- -C(O)N(Me)SO<sub>2</sub>Me,
- -C(O)N(Me)SO<sub>2</sub>Et,
- -C(O)N(Me)S(O)iPr,
- -C(O)N(Me))SO<sub>2</sub>iPr,
- -C(O)N(Me))S(O)tBu,

- -C(O)N(Me)SO2tBu,
- $-C(O)N(Me)CH_2S(O)Me$ ,
- -C(O)N(Me)CH<sub>2</sub>S(O)Et,
- $-C(O)N(Me)CH_2SO_2Me,\\$
- -C(O)N(Me)CH<sub>2</sub>SO<sub>2</sub>Et,
- $-C(O)N(Me)CH_2CH_2S(O)Me$ ,
- -C(O)N(Me)CH<sub>2</sub>CH<sub>2</sub>S(O)Et,
- -C(O)N(Me)CH2CH2SO2Me,
- -C(O)N(Me)CH2CH2SO2Et,
- -CH<sub>2</sub>CO<sub>2</sub>H,
- -CH<sub>2</sub>-5-tetrazolyl,
- -CH<sub>2</sub>CO<sub>2</sub>Me,
- $-CH_2CO_2Et$ ,
- -CH<sub>2</sub>NHS(O)Me,
- -CH<sub>2</sub>NHS(O)Et,
- -CH<sub>2</sub>NHSO<sub>2</sub>Me,
- -CH2NHSO2Et,
- -CH2NHS(O)iPr,
- -CH2NHSO2iPr,
- -CH2NHS(O)tBu,
- -CH2NHSO2tBu,
- -CH2NHCH2CH2SO2CH3,
- -CH2NH(CH2CO2H),
- $-CH_2N(C(O)Me)(CH_2CO_2H),$
- -CH<sub>2</sub>-N-pyrrolidin-2-one,
- -CH<sub>2</sub>-(1-methylpyrrolidin-2-one-3-yl),
- -CH<sub>2</sub>S(O)Me,
- -CH<sub>2</sub>S(O)Et,
- -CH<sub>2</sub>S(O)<sub>2</sub>Me,

- $-CH_2S(O)_2Et$ ,
- -CH<sub>2</sub>S(O)iPr,
- -CH<sub>2</sub>S(O)<sub>2</sub>iPr,
- $-CH_2S(O)tBu$ ,
- -CH<sub>2</sub>S(O)<sub>2</sub>tBu,
- -CH<sub>2</sub>CO<sub>2</sub>H, CH<sub>2</sub>C(O)NH<sub>2</sub>,
- $-CH_2C(O)NMe_2$ ,
- -CH<sub>2</sub>C(O)NHMe,
- -CH<sub>2</sub>C(O)-N-pyrrolidine,
- -CH<sub>2</sub>S(O)<sub>2</sub>Me, CH<sub>2</sub>S(O)Me,
- -CH(OH) CO<sub>2</sub>H,
- $-CH(OH)C(O)NH_2$ ,
- -CH(OH)C(O)NHMe,
- -CH(OH)C(O)NMe2,
- -CH(OH)C(O)NEt<sub>2</sub>,
- -CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>H,
- -CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>Me,
- -CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>Et,
- $-CH_2CH_2C(O)NH_2$ ,
- -CH<sub>2</sub>CH<sub>2</sub>C(O)NHMe,
- -CH2CH2C(O)NMe2,
- $\hbox{-CH}_2\hbox{CH}_2\hbox{-5-tetrazolyl},$
- -CH<sub>2</sub>CH<sub>2</sub>S(O)<sub>2</sub>Me,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)Me,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)<sub>2</sub>Et,
- -CH<sub>2</sub>CH<sub>2</sub>S(O) Et,
- -CH2CH2S(O)iPr,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)<sub>2</sub>iPr,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)tBu,

 $-CH_2CH_2S(O)_2tBu$ ,

 $-CH_2CH_2S(O)NH_2$ ,

-CH<sub>2</sub>CH<sub>2</sub>S(O)NHMe,

 $-CH_{2}CH_{2}S(O)NMe_{2}, \\$ 

 $-CH_2CH_2S(O)_2NH_2$ ,

 $\hbox{-CH}_2\hbox{CH}_2\hbox{S(O)}_2\hbox{NHMe}$ 

-CH<sub>2</sub>CH<sub>2</sub>S(O)<sub>2</sub>NMe<sub>2</sub>,

-CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>S(O)Me,

 $\hbox{-CH}_2\hbox{CH}_2\hbox{CH}_2S(O)\hbox{Et},$ 

 $-CH_2CH_2CH_2S(O)_2Me,\\$ 

 $\hbox{-CH}_2\hbox{CH}_2\hbox{CH}_2\hbox{S}(O)_2\hbox{Et},$ 

CH(Me)CH<sub>2</sub>C(O)OH,

 $-C(Me)_2CH_2C(O)OH$ ,

-5-tetrazolyl,

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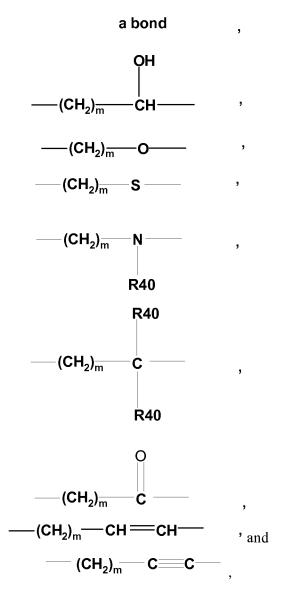
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- -1,3,4-oxadiazolin-2-one-5-yl,
- -imidazolidine-2,4-dione-5-yl,
- -isoxazol-3-ol-yl, or
- -1,3,4-oxadiazolin-2-thione-5-yl;

provided that RP is substituted at either the 2, 5, or 6 position of the phenyl ring.

- 4. (currently amended) A compound according to claim 1 or a pharmaceutically acceptable salt or <u>an ester prodrug</u> derivative thereof wherein
- $(L_{P1})$ ,  $(L_{P2})$ , and  $(L_{TB})$  are divalent linking groups independently selected from the group consisting of

X16541



where m is 0, 1, or 2, and each R40 is independently hydrogen,  $C_1$ - $C_5$  alkyl, or  $C_1$ - $C_5$  fluoroalkyl; and

- $-CH_2CH_2S(O)_2Me$ ,
- -CH2CH2S(O)Me,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)<sub>2</sub>Et,
- $-CH_2CH_2S(O)$  Et,
- -CH2CH2S(O)iPr,
- -CH2CH2S(O)2iPr,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)tBu,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)<sub>2</sub>tBu,

 $- \text{CH}_2 \text{CH}_2 \text{S}(\text{O}) \text{NH}_2,$ 

 $-CH_2CH_2S(O)NHMe$ ,

 $-CH_2CH_2S(O)NMe_2,\\$ 

 $-CH_2CH_2S(O)_2NH_2,\\$ 

 $\hbox{-CH}_2\hbox{CH}_2\hbox{S(O)}_2\hbox{NHMe}$ 

 $-CH_2CH_2S(O)_2NMe_2,\\$ 

 $-CH_2CH_2CH_2S(O)Me,\\$ 

 $\hbox{-CH}_2\hbox{CH}_2\hbox{CH}_2S(O)\hbox{Et},$ 

 $-CH_2CH_2CH_2S(O)_2Me$ ,

 $\hbox{-CH}_2\hbox{CH}_2\hbox{CH}_2\hbox{S(O)}_2\hbox{Et},$ 

-C(O)OH,

-5-tetrazolyl,

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$$N-N$$
 $N-N$ 
 $N-N$ 

-1,3,4-oxadiazolin-2-one-5-yl,

НО

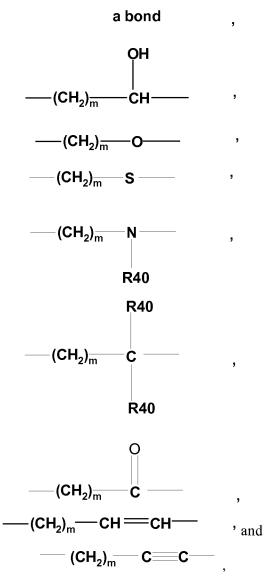
-imidazolidine-2,4-dione-5-yl,

-isoxazol-3-ol-yl, or

-1,3,4-oxadiazolin-2-thione-5-yl.

5. (currently amended) A compound according to claim 2 or a pharmaceutically acceptable salt or an ester prodrug derivative thereof wherein (LP1), (LP2), and (LBT) are divalent linking groups independently selected from the group consisting of

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where m is 0, 1, or 2, and each R40 is independently hydrogen,  $C_1$ - $C_5$  alkyl, or  $C_1$ - $C_5$ 

## fluoroalkyl; and

## Z<sub>BT</sub> is selected from

- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-(O)-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- $-O-(C_1-C_5 \text{ alkyl}) \text{ NH}_2$
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)<sub>2</sub>
- $-O-(C_1-C_5 \text{ alkyl})-C(O)-NH_2$
- $-O-(C_1-C_5 \text{ alkyl})-C(O)-NH-(C_1-C_5 \text{ alkyl}),$
- $-O-(C_1-C_5 \text{ alkyl})-C(O)-N-(C_1-C_5 \text{ alkyl})_2$
- $-O-(C_1-C_5 \text{ alkyl})-C(O)-OH$ ,
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)-NH-5-tetrazolyl,
- $-O-(C_1-C_5 \text{ alkyl})-C(O)-(C_1-C_5 \text{ alkyl}),$
- $-O-(C_1-C_5 \text{ alkyl})-C(O)-(O-C_1-C_5 \text{ alkyl}),$
- $-O-(C_1-C_5 \text{ alkyl})-NH_2$
- $-O-(C_1-C_5 \text{ alkyl})-NH-(C_1-C_5 \text{ alkyl}),$
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-(C<sub>1</sub>-C<sub>5</sub> alkyl)<sub>2</sub>
- $-O-(C_1-C_5 \text{ alkyl})-NH-SO_2-(C_1-C_5 \text{ alkyl}),$
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidin-2-one,
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidine,
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-(1-methylpyrrolidin-2-one-3-yl),
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl,)
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-NH<sub>2</sub>
- $-O-(C_1-C_5 \text{ alkyl})-SO_2-NH-(C_1-C_5 \text{ alkyl}),$
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-N-(C<sub>1</sub>-C<sub>5</sub> alkyl)<sub>2</sub>
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- $-O-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl})$
- $-O-(C_1-C_5 \text{ alkyl})-S(O)-NH_2$
- $-O-(C_1-C_5 \text{ alkyl})-S(O)-NH-(C_1-C_5 \text{ alkyl}),$
- $-O-(C_1-C_5 \text{ alkyl})-S(O)-N-(C_1-C_5 \text{ alkyl})_2$
- $-O-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl}),$
- $-O-(C_1-C_5 \text{ alkyl})-P(O)-(O-C_1-C_5 \text{ alkyl})_2$ ,
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-5-tetrazolyl,

- -O-CH<sub>2</sub>-CO<sub>2</sub>H,
- -O-CH<sub>2</sub>-5-tetrazolyl,
- $-O-(C_1-C_5 \text{ alkyl}),$
- -O-C(O)-NH<sub>2</sub>,
- -O-C(O)-N-(CH<sub>3</sub>)<sub>2</sub>,
- -O-C(S)-N-(CH<sub>3</sub>)<sub>2</sub>,
- -O-C(O)-O-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- -O-(5-tetrazolyl),
- -O-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl,)
- -O-SO<sub>2</sub>-NH<sub>2</sub>,
- $-O-SO_2-NH-(C_1-C_5 alkyl),$
- $-O-SO_2-N-(C_1-C_5 \text{ alkyl})_2$ ,
- $-O-S(O)-(C_1-C_5 \text{ alkyl,})$
- -O-S(O)-NH<sub>2</sub>,
- $-O-S(O)-NH-(C_1-C_5 alkyl),$
- $-O-S(O)-N-(C_1-C_5 \text{ alkyl})_2$ ,
- $-S-(C_1-C_5 \text{ alkyl}),$
- -S-(C2-C5 alkenyl),
- -S-(C3-C5 cycloalkyl),
- -S-(C3-C5 cycloalkenyl),
- -S-(C<sub>1</sub>-C<sub>5</sub> fluoroalkyl),
- -S-(C<sub>1</sub>-C<sub>5</sub> hydroxyalkyl),
- -S-(C<sub>1</sub>-C<sub>5</sub> alkyl)-phenyl,
- $-S-(C_1-C_5 \text{ alkyl})-O-(C_1-C_5 \text{ alkyl}),$
- $-S-(C_1-C_5 \text{ alkyl})-C(O)-OH$ ,
- $-S-(C_1-C_5 \text{ alkyl})-C(O)-(C_1-C_5 \text{ alkyl}),$
- $-S-(C_1-C_5 \text{ alkyl})-C(O)-O-(C_1-C_5 \text{ alkyl}),$
- -S-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)-NH<sub>2</sub>
- $-S-(C_1-C_5 \text{ alkyl})-C(O)-NH-(C_1-C_5 \text{ alkyl}),$

$$-S-(C_1-C_5 \text{ alkyl})-NH-(C_1-C_5 \text{ alkyl}),$$

$$-S-(C_1-C_5 \text{ alkyl})-NH-SO_2-(C_1-C_5 \text{ alkyl}),$$

$$-S-(C_1-C_5 \text{ alkyl})-SO_2-NH-(C_1-C_5 \text{ alkyl}),$$

$$-S-(C_1-C_5 \text{ alkyl})-P(O)-(O-C_1-C_5 \text{ alkyl})_2$$
,

$$-S-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl}),$$

$$-S-(C_1-C_5 \text{ alkyl})-S(O)-NH_2$$

$$-S-(C_1-C_5 \text{ alkyl})-S(O)-NH-(C_1-C_5 \text{ alkyl}),$$

$$-S-(C_1-C_5 \text{ alkyl})-S(O)-N-(C_1-C_5 \text{ alkyl})_2$$
,

$$-S-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl}),$$

$$-SO_2-(C_1-C_5 \text{ alkyl}),$$

$$-SO_2-(C_1-C_5)$$
-phenyl,

$$-SO_2$$
-NH-(C<sub>1</sub>-C<sub>5</sub> alkyl),

- -SO<sub>2</sub>-NH-CH<sub>2</sub>-C(O)OH,
- $-SO_2$ -NH-CH<sub>2</sub>-C(O)(O-C<sub>1</sub>-C<sub>5</sub> alkyl),
- -SO<sub>2</sub>-NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)OH,
- $-SO_2$ -NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)(O-C<sub>1</sub>-C<sub>5</sub> alkyl),
- -SO<sub>2</sub>-NHC(O)-(C<sub>3</sub>-C<sub>6</sub> cycloalkyl),
- $-SO_2$ -NH-C(O)-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- $-SO_2-N-(C_1-C_5 \text{ alkyl})_2$
- $-SO_2-(C_1-C_5 \text{ alkyl})-O-(C_1-C_5 \text{ alkyl}),$
- $-SO_2$ - $(C_1$ - $C_5$  alkyl)-C(O)- $(C_1$ - $C_5$  alkyl),
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl) NH<sub>2</sub>.
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl)-NH-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-(C<sub>1</sub>-C<sub>5</sub> alkyl)<sub>2</sub>
- $-SO_2-(C_1-C_5 \text{ alkyl})-C(O)-NH_2$
- $-SO_2$ -(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)-NH-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- $-SO_2-(C_1-C_5 \text{ alkyl})-C(O)-N-(C_1-C_5 \text{ alkyl})_2$ ,
- $-SO_2-(C_1-C_5 \text{ alkyl})-NH-SO_2-(C_1-C_5 \text{ alkyl}),$
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidin-2-one,
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidine,
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl)-(1-methylpyrrolidin-2-one-3-yl),
- $-SO_2-(C_1-C_5 \text{ alkyl})-C(O)-O-(C_1-C_5 \text{ alkyl}),$
- $-SO_2-(C_1-C_5 \text{ alkyl})-C(O)-OH$ ,
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl)-5-tetrazolyl,
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-NH<sub>2</sub>
- $-SO_2-(C_1-C_5 \text{ alkyl})-SO_2-NH-(C_1-C_5 \text{ alkyl}),$
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-N-(C<sub>1</sub>-C<sub>5</sub> alkyl)<sub>2</sub>
- $-SO_2-(C_1-C_5 \text{ alkyl})-SO_2-(C_1-C_5 \text{ alkyl}),$
- $-SO_2-(C_1-C_5 \text{ alkyl})-P(O)-(O-C_1-C_5 \text{ alkyl})_2$
- $-SO_2-(C_1-C_5 \text{ alkyl}),$

- -SO<sub>2</sub>-(C<sub>2</sub>-C<sub>5</sub> alkenyl),
- -SO<sub>2</sub>-(C<sub>3</sub>-C<sub>5</sub> cycloalkyl),
- -SO<sub>2</sub>-(C<sub>3</sub>-C<sub>5</sub> cycloalkenyl),
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> hydroxyalkyl),
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> fluoroalkyl),
- $-SO_2-(C_1-C_5)$ -phenyl,
- $-SO_2-N=CHN(C_1-C_5 \text{ alkyl})$  2.
- -S(O)-NH<sub>2</sub>
- $-S(O)-NH-(C_1-C_5 alkyl),$
- -S(O)-NH-CH<sub>2</sub>-C(O)OH
- -S(O)-NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)OH,
- $-S(O)-NH-CH_2-C(O)(O-C_1-C_5 \text{ alkyl}),$
- $-S(O)-NH-(C_1-C_5 \text{ alkyl})-C(O)(O-C_1-C_5 \text{ alkyl}),$
- $-S(O)HC(O)-(C_3-C_6 \text{ cycloalkyl}),$
- $-S(O)-NH-C(O)-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-N-(C_1-C_5 \text{ alkyl})_2$
- $-S(O)-(C_1-C_5 \text{ alkyl})-O-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-(O-C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-NH-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-N-(C_1-C_5 \text{ alkyl})_2$
- $-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-NH_2$
- $-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-NH-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-N-(C_1-C_5 \text{ alkyl})_2$
- $-S(O)-(C_1-C_5 \text{ alkyl})-NH-SO_2-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-NH-S(O)-(C_1-C_5 \text{ alkyl}),$
- -S(O)-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidin-2-one,
- -S(O)-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidine,
- -S(O)-(C<sub>1</sub>-C<sub>5</sub> alkyl)-(1-methylpyrrolidin-2-one-3-yl),

- $-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-(O-C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-OH$ ,
- -S(O)-(C<sub>1</sub>-C<sub>5</sub> alkyl)-5-tetrazolyl,
- $-S(O)-(C_1-C_5 \text{ alkyl})-SO_2-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-SO_2-NH_2$
- $-S(O)-(C_1-C_5 \text{ alkyl})-S(O)-NH_2$
- $-S(O)-(C_1-C_5 \text{ alkyl})-SO_2-NH-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-S(O)-NH-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-SO_2-N-(C_1-C_5 \text{ alkyl})_2$
- $-S(O)-(C_1-C_5 \text{ alkyl})-S(O)-N-(C_1-C_5 \text{ alkyl})_2$
- $-S(O)-(C_1-C_5 \text{ alkyl})-SO_2-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-P(O)-(O-C_1-C_5 \text{ alkyl})_2$ ,
- $-S(O)-N=CHN(C_1-C_5 \text{ alkyl}) 2$ .
- $-NHC(S)NH_2$
- $-NHC(S)NH-(C_1-C_5 alkyl),$
- $-NHC(S)N-(C_1-C_5 \text{ alkyl})_2$ ,
- -NHC(S)NH-(C2-C5 alkenyl),
- -NHC(S)NH-(C3-C5 cycloalkyl),
- -NHC(S)NH-(C3-C5 cycloalkenyl),
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> fluoroalkyl),
- -NHC(S)NH-C<sub>1</sub>-C<sub>5</sub> hydroxyalkyl,
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> fluoroalkyl)
- -NHC(S)NH-phenyl,
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)-OH,
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-O-(C_1-C_5 \text{ alkyl}),$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-C(O)-(C_1-C_5 \text{ alkyl}),$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-C(O)-(O-C_1-C_5 \text{ alkyl}),$

- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-NH<sub>2</sub>
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-NH-(C_1-C_5 \text{ alkyl}),$
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-(C<sub>1</sub>-C<sub>5</sub> alkyl)<sub>2</sub>
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)-NH<sub>2</sub>
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-C(O)-NH-(C_1-C_5 \text{ alkyl}),$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-C(O)-N-(C_1-C_5 \text{ alkyl})_2$
- $-NHC(S)NH-(C_1-C_5 alkyl)-NH-SO_2-(C_1-C_5 alkyl),$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-NH-S(O)-(C_1-C_5 \text{ alkyl}),$
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidin-2-one,
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidine,
- $\hbox{-NHC}(S) \hbox{NH-}(C_1\hbox{-}C_5 \ alkyl)\hbox{-}(1\hbox{-methylpyrrolidin-}2\hbox{-one-}$ 3-y1),
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-5-tetrazolyl,
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-NH<sub>2</sub>
- $-NHC(S)NH-(C_1-C_5 alkyl)-SO_2-NH-(C_1-C_5 alkyl),$
- $-NHC(S)NH-(C_1-C_5 alkyl)-SO_2-N-(C_1-C_5 alkyl)_2$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl}),$
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-S(O)-NH<sub>2</sub>
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-S(O)-NH-(C_1-C_5 \text{ alkyl}),$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-S(O)-N-(C_1-C_5 \text{ alkyl})_2$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-P(O)-(O-C_1-C_5 \text{ alkyl})_2$
- -NHC(O)NH<sub>2</sub>,
- $-NHC(O)NH-(C_1-C_5 \text{ alkyl}),$
- $-NHC(O)N-(C_1-C_5 alkyl)_2$ ,
- -NHC(O)NH-(C2-C5 alkenyl),
- -NHC(O)NH-(C3-C5 cycloalkyl),
- -NHC(O)NH-(C3-C5 cycloalkenyl),
- -NHC(O)NH-(C<sub>1</sub>-C<sub>5</sub> hydroxyalkyl),

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-NHC(O)NH-(C<sub>1</sub>-C<sub>5</sub> fluoroalkyl),
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$$\hbox{-NHC}(O)\hbox{NH-}(C_1\hbox{-}C_5 \ alkyl)\hbox{-NH-}(C_1\hbox{-}C_5 \ alkyl),$$

$$-NHC(O)NH-(C_1-C_5 alkyl)-NH-(C_1-C_5 alkyl),$$

$$-NHC(O)NH-(C_1-C_5 \text{ alkyl})-C(O)-NH-(C_1-C_5 \text{ alkyl}),$$

$$-NHC(O)NH-(C_1-C_5 \text{ alkyl})-C(O)-N-(C_1-C_5 \text{ alkyl})_2$$

$$\hbox{-NHC}(O)\hbox{NH-}(C_1\hbox{-}C_5 \ alkyl)\hbox{-}C(O)\hbox{-}(C_1\hbox{-}C_5 \ alkyl),$$

$$\hbox{-NHC}(O)\hbox{NH-}(C_1\hbox{-}C_5 \ alkyl)\hbox{-NH-SO}_2\hbox{-}(C_1\hbox{-}C_5 \ alkyl),$$

$$\hbox{-NHC}(O)\hbox{NH-}(\hbox{$C_1$-$$$} \hbox{$C_5$ alkyl)-C}(O)\hbox{-OH},$$

$$\hbox{-NHC(O)NH-(C$_1$-C$_5$ alkyl)-SO$_2$-(C$_1$-C$_5$ alkyl),}\\$$

$$-NHC(O)NH-(C_1-C_5 alkyl)-SO_2-NH_2$$

$$\hbox{-NHC}(O)\hbox{NH-}(C_1\hbox{-}C_5 \ alkyl)\hbox{-SO}_2\hbox{-NH-}(C_1\hbox{-}C_5 \ alkyl),$$

$$-NHC(O)NH-(C_1-C_5 \text{ alkyl})-SO_2-N-(C_1-C_5 \text{ alkyl})_2$$

$$-NH2$$

$$-NH-(C_1-C_5 \text{ alkyl}),$$

- $-N-(C_1-C_5 \text{ alkyl})_2$
- $-NH-C(O)-NH_2$ ,
- $-NH-C(O)-NH-(C_1-C_5 alkyl),$
- -NH-C(O)-N- $(C_1-C_5 \text{ alkyl})_2$ .
- -NH-C(O)-( $C_1$ - $C_5$  alkyl),
- $-NH-SO_2-(C_1-C_5 \text{ alkyl}),$
- -NH-S(O)-( $C_1$ - $C_5$  alkyl),
- -N(CH<sub>3</sub>)(OCH<sub>3</sub>),
- $-N(OH)(CH_3),$
- -N-pyrrolidin-2-one,
- -N-pyrrolidine,
- -(1-methylpyrrolidin-2-one-3-yl),
- -CO<sub>2</sub>H,
- -CO<sub>2</sub>Me,
- -CO<sub>2</sub>Et,
- $-C(O)CH_2S(O)Me$ ,
- $-C(O)CH_2S(O)Et$ ,
- $-C(O)CH_2S(O)_2Me$ ,
- -C(O)CH<sub>2</sub>S(O)<sub>2</sub>Et,
- -C(O)CH<sub>2</sub>CH<sub>2</sub>S(O)Me,
- $-C(O)CH_2CH_2S(O)Et$ ,
- -C(O)CH<sub>2</sub>CH<sub>2</sub>S(O)<sub>2</sub>Me,
- $\hbox{-C(O)CH}_2\hbox{CH}_2\hbox{S(O)}_2\hbox{Et},$
- -C(O)CH(Me)CH<sub>2</sub>CO<sub>2</sub>H,
- -C(O)CH(Me)CH<sub>2</sub>CO<sub>2</sub>Me,
- -C(O)CH(Me)CH<sub>2</sub>CO<sub>2</sub>Et,
- -C(O)CH(Me)CH2CO2iPr,
- -C(O)CH(Me)CH2CO2tBu,
- -C(O)CH(Me)CH(Me)CO<sub>2</sub>H,

- -C(O)CH(Me)CH(Me)CO<sub>2</sub>Me,
- -C(O)CH(Me)CH(Me)CO<sub>2</sub>Et,
- -C(O)CH(Me)CH(Me)CO2iPr,
- -C(O)CH(Me)CH(Me)CO2tBu,
- -C(O)CH(Me)C(Me) 2CO<sub>2</sub>H,
- $-C(O)CH(Me)C(Me) \ _2CO_2Me,$
- -C(O)CH(Me)C(Me) 2CO2Et,
- -C(O)CH(Me)C(Me) 2CO2iPr,
- -C(O)CH(Me)C(Me) 2CO2tBu,
- -C(O)CH(Me)CH(Et)CO<sub>2</sub>H,
- -C(O)CH(Me)CH(Et)CO<sub>2</sub>Me,
- -C(O)CH(Me)CH(Et)CO<sub>2</sub>Et,
- -C(O)CH(Me)CH(Et)CO2iPr,
- -C(O)CH(Me)CH(Et)CO2tBu,
- -C(O)C(O)OH,
- -C(O)C(O)NH<sub>2</sub>,
- -C(O)C(O)NHMe,
- $-C(O)C(O)NMe_2$ ,
- -C(O)NH<sub>2</sub>,
- -C(O)NMe2,
- $-C(O)NH-CH_2-C(O)OH$ ,
- $-C(O)NH-CH_2-C(O)OMe$ ,
- $-C(O)NH-CH_2-C(O)OEt$ ,
- -C(O)NH-CH<sub>2</sub>-C(O)OiPr,
- $-C(O)NH-CH_2-C(O)OtBu$ ,
- -C(O)NH-CH(Me)-C(O)OH,
- -C(O)NH-CH(Me)-C(O)OMe,
- -C(O)NH-CH(Me)-C(O)OEt,
- -C(O)NH-CH(Me)-C(O)iPr,
- -C(O)NH-CH(Me)-C(O)tBu,
- -C(O)NH-CH(Et)-C(O)OH,

- $-C(O)NH-C(Me)_2-C(O)OH$ ,
- $-C(O)NH-C(Me)_2-C(O)OMe$ ,
- -C(O)NH-C(Me)<sub>2</sub>-C(O)OEt,
- $-C(O)NH-C(Me)_2-C(O)iPr$ ,
- -C(O)NH-C(Me)<sub>2</sub>-C(O)tBu,
- -C(O)NH-CMe(Et)-C(O)OH,
- -C(O)NH-CH(F)-C(O)OH,
- -C(O)NH-CH(CF<sub>3</sub>)-C(O)OH,
- -C(O)NH-CH(OH)-C(O)OH,
- -C(O)NH-CH(cyclopropyl)-C(O)OH,
- $-C(O)NH-C(Me)_2-C(O)OH$ ,
- -C(O)NH-C(Me)<sub>2</sub>-C(O)OH,
- -C(O)NH-CF(Me)-C(O)OH,
- -C(O)NH-C(Me)(CF<sub>3</sub>)-C(O)OH,
- -C(O)NH-C(Me)(OH)-C(O)OH,
- -C(O)NH-C(Me)(cyclopropyl)CO<sub>2</sub>H
- -C(O)NMe-CH<sub>2</sub>-C(O)OH,
- -C(O)NMe-CH<sub>2</sub>-C(O)OMe,
- $-C(O)NMe-CH_2-C(O)OEt$ ,
- -C(O)NMe-CH<sub>2</sub>-C(O)OiPr,
- -C(O)NMe-CH<sub>2</sub>-C(O)tBu,
- $-C(O)NMe-CH_2-C(O)OH$ ,
- -C(O)NMe-CH(Me)-C(O)OH,
- -C(O)NMe-CH(F)-C(O)OH,
- $-C(O)NMe-CH(CF_3)-C(O)OH$ ,
- -C(O)NMe-CH(OH)-C(O)OH,
- -C(O)NMe-CH(cyclopropyl)-C(O)OH,
- -C(O)NMe-C(Me)<sub>2</sub>-C(O)OH,
- -C(O)NMe-CF(Me)-C(O)OH,
- $-C(O)NMe-C(Me)(CF_3)-C(O)OH$ ,
- -C(O)NMe-C(Me)(OH)-C(O)OH,
- -C(O)NMe-C(Me)(cyclopropyl)-C(O)OH,
- -C(O)NHS(O)Me,

- -C(O)NHSO<sub>2</sub>Me,
- -C(O)-NH-5-tetrazolyl,
- -C(O)NHS(O)Me,
- -C(O)NHS(O)Et,
- -C(O)NHSO<sub>2</sub>Me,
- -C(O)NHSO<sub>2</sub>Et,
- -C(O)NHS(O)iPr,
- -C(O)NHSO2iPr,
- -C(O)NHS(O)tBu,
- -C(O)NHSO2tBu,
- -C(O)NHCH<sub>2</sub>S(O)Me,
- -C(O)NHCH2S(O)Et,
- -C(O)NHCH2SO2Me,
- -C(O)NHCH2SO2Et,
- -C(O)NHCH2CH2S(O)Me,
- -C(O)NHCH2CH2S(O)Et,
- -C(O)NHCH2CH2SO2Me,
- -C(O)NHCH2CH2SO2Et,
- -C(O)N(Me)S(O)Me,
- -C(O)N(Me)SO<sub>2</sub>Me,
- -C(O)-N(Me)-5-tetrazolyl,
- -C(O)N(Me)S(O)Me,
- -C(O)N(Me)S(O)Et,
- $-C(O)N(Me)SO_2Me$ ,
- $-C(O)N(Me)SO_2Et$ ,
- -C(O)N(Me)S(O)iPr,
- -C(O)N(Me))SO2iPr,
- -C(O)N(Me))S(O)tBu,
- -C(O)N(Me)SO<sub>2</sub>tBu,
- -C(O)N(Me)CH<sub>2</sub>S(O)Me,

- -C(O)N(Me)CH<sub>2</sub>S(O)Et,
- -C(O)N(Me)CH<sub>2</sub>SO<sub>2</sub>Me,
- -C(O)N(Me)CH<sub>2</sub>SO<sub>2</sub>Et,
- $-C(O)N(Me)CH_2CH_2S(O)Me$ ,
- -C(O)N(Me)CH<sub>2</sub>CH<sub>2</sub>S(O)Et,
- -C(O)N(Me)CH2CH2SO2Me,
- $-C(O)N(Me)CH_2CH_2SO_2Et$ ,
- -CH<sub>2</sub>CO<sub>2</sub>H,
- -CH<sub>2</sub>-5-tetrazolyl,
- -CH<sub>2</sub>CO<sub>2</sub>Me,
- -CH<sub>2</sub>CO<sub>2</sub>Et,
- -CH2NHS(O)Me,
- -CH<sub>2</sub>NHS(O)Et,
- -CH<sub>2</sub>NHSO<sub>2</sub>Me,
- -CH<sub>2</sub>NHSO<sub>2</sub>Et,
- -CH2NHS(O)iPr,
- -CH2NHSO2iPr,
- -CH2NHS(O)tBu,
- -CH2NHSO2tBu,
- -CH<sub>2</sub>NHCH<sub>2</sub>CH<sub>2</sub>SO<sub>2</sub>CH<sub>3</sub>,
- -CH2NH(CH2CO2H),
- -CH<sub>2</sub>N(C(O)Me)(CH<sub>2</sub>CO<sub>2</sub>H),
- -CH<sub>2</sub>-N-pyrrolidin-2-one,
- -CH<sub>2</sub>-(1-methylpyrrolidin-2-one-3-yl),
- -CH<sub>2</sub>S(O)Me,
- -CH<sub>2</sub>S(O)Et,
- -CH<sub>2</sub>S(O)<sub>2</sub>Me,
- -CH<sub>2</sub>S(O)<sub>2</sub>Et,
- -CH<sub>2</sub>S(O)iPr,

- $-CH_2S(O)_2iPr$ ,
- -CH<sub>2</sub>S(O)tBu,
- -CH<sub>2</sub>S(O)<sub>2</sub>tBu,
- -CH<sub>2</sub>CO<sub>2</sub>H, CH<sub>2</sub>C(O)NH<sub>2</sub>,
- -CH<sub>2</sub>C(O)NMe<sub>2</sub>,
- -CH<sub>2</sub>C(O)NHMe,
- -CH<sub>2</sub>C(O)-N-pyrrolidine,
- $-CH_2S(O)_2Me$ ,  $CH_2S(O)Me$ ,
- -CH(OH) CO<sub>2</sub>H,
- $-CH(OH)C(O)NH_2$ ,
- -CH(OH)C(O)NHMe,
- -CH(OH)C(O)NMe2,
- -CH(OH)C(O)NEt<sub>2</sub>,
- -CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>H,
- -CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>Me,
- -CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>Et,
- $-CH_2CH_2C(O)NH_2$ ,
- -CH<sub>2</sub>CH<sub>2</sub>C(O)NHMe,
- -CH<sub>2</sub>CH<sub>2</sub>C(O)NMe<sub>2</sub>,
- -CH<sub>2</sub>CH<sub>2</sub>-5-tetrazolyl,
- $-CH_2CH_2S(O)_2Me$ ,
- $-CH_2CH_2S(O)Me$ ,
- $-CH_2CH_2S(O)_2Et$ ,
- $-CH_2CH_2S(O)$  Et,
- -CH2CH2S(O)iPr,
- -CH2CH2S(O)2iPr,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)tBu,
- -CH2CH2S(O)2tBu,
- $-CH_2CH_2S(O)NH_2$ ,

- -CH<sub>2</sub>CH<sub>2</sub>S(O)NHMe,
- $-CH_2CH_2S(O)NMe_2$ ,
- $-CH_2CH_2S(O)_2NH_2$ ,
- $\hbox{-CH}_2\hbox{CH}_2\hbox{S}(O)_2\hbox{NHMe}$
- $-CH_2CH_2S(O)_2NMe_2$ ,
- $-CH_2CH_2CH_2S(O)Me,\\$
- $\hbox{-CH}_2\hbox{CH}_2\hbox{CH}_2S(O)\hbox{Et},$
- $-CH_2CH_2CH_2S(O)_2Me,\\$
- $-CH_2CH_2CH_2S(O)_2Et,\\$

$$\begin{array}{c|c} O & O \\ \hline \\ C & NH \\ \hline \\ O \\ \end{array} CH_3$$

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-1,3,4-oxadiazolin-2-one-5-yl,

-imidazolidine-2,4-dione-5-yl,

-isoxazol-3-ol-yl, or

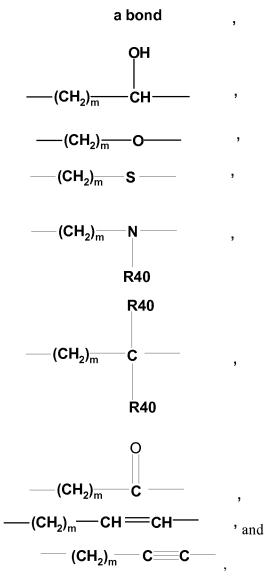
-1,3,4-oxadiazolin-2-thione-5-yl.

consisting of

6. (currently amended) A compound according to claim 3 or a pharmaceutically acceptable salt or an ester prodrug derivative thereof wherein (L<sub>P1</sub>), (L<sub>P2</sub>), and (L<sub>BT</sub>) are divalent linking groups independently selected from the group

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where m is 0, 1, or 2, and each R40 is independently hydrogen, C<sub>1</sub>-C<sub>5</sub> alkyl, or C<sub>1</sub>-C<sub>5</sub>

## fluoroalkyl; and

## Z<sub>BT</sub> is selected from

- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-(O)-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl) NH<sub>2</sub>
- $-O-(C_1-C_5 \text{ alkyl})-NH-(C_1-C_5 \text{ alkyl})_2$
- $-O-(C_1-C_5 \text{ alkyl})-C(O)-NH_2$
- $-O-(C_1-C_5 \text{ alkyl})-C(O)-NH-(C_1-C_5 \text{ alkyl}),$
- $-O-(C_1-C_5 \text{ alkyl})-C(O)-N-(C_1-C_5 \text{ alkyl})_2$
- $-O-(C_1-C_5 \text{ alkyl})-C(O)-OH$ ,
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)-NH-5-tetrazolyl,
- $-O-(C_1-C_5 \text{ alkyl})-C(O)-(C_1-C_5 \text{ alkyl}),$
- $-O-(C_1-C_5 \text{ alkyl})-C(O)-(O-C_1-C_5 \text{ alkyl}),$
- $-O-(C_1-C_5 \text{ alkyl})-NH_2$
- $-O-(C_1-C_5 \text{ alkyl})-NH-(C_1-C_5 \text{ alkyl}),$
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-(C<sub>1</sub>-C<sub>5</sub> alkyl)<sub>2</sub>
- $-O-(C_1-C_5 \text{ alkyl})-NH-SO_2-(C_1-C_5 \text{ alkyl}),$
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidin-2-one,
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidine,
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-(1-methylpyrrolidin-2-one-3-yl),
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl,)
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-NH<sub>2</sub>
- $-O-(C_1-C_5 \text{ alkyl})-SO_2-NH-(C_1-C_5 \text{ alkyl}),$
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-N-(C<sub>1</sub>-C<sub>5</sub> alkyl)<sub>2</sub>
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- $-O-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl})$
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-S(O)-NH<sub>2</sub>
- $-O-(C_1-C_5 \text{ alkyl})-S(O)-NH-(C_1-C_5 \text{ alkyl}),$
- $-O-(C_1-C_5 \text{ alkyl})-S(O)-N-(C_1-C_5 \text{ alkyl})_2$
- $-O-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl}),$
- $-O-(C_1-C_5 \text{ alkyl})-P(O)-(O-C_1-C_5 \text{ alkyl})_2$ ,
- -O-(C<sub>1</sub>-C<sub>5</sub> alkyl)-5-tetrazolyl,

- -O-CH<sub>2</sub>-CO<sub>2</sub>H,
- -O-CH<sub>2</sub>-5-tetrazolyl,
- $-O-(C_1-C_5 \text{ alkyl}),$
- -O-C(O)-NH<sub>2</sub>,
- -O-C(O)-N-(CH<sub>3</sub>)<sub>2</sub>,
- -O-C(S)-N-(CH<sub>3</sub>)<sub>2</sub>,
- -O-C(O)-O-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- -O-(5-tetrazolyl),
- -O-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl,)
- -O-SO<sub>2</sub>-NH<sub>2</sub>,
- $-O-SO_2-NH-(C_1-C_5 alkyl),$
- $-O-SO_2-N-(C_1-C_5 \text{ alkyl})_2$ ,
- $-O-S(O)-(C_1-C_5 \text{ alkyl,})$
- -O-S(O)-NH<sub>2</sub>,
- $-O-S(O)-NH-(C_1-C_5 alkyl),$
- $-O-S(O)-N-(C_1-C_5 \text{ alkyl})_2$ ,
- $-S-(C_1-C_5 \text{ alkyl}),$
- -S-(C2-C5 alkenyl),
- -S-(C3-C5 cycloalkyl),
- -S-(C3-C5 cycloalkenyl),
- -S-(C<sub>1</sub>-C<sub>5</sub> fluoroalkyl),
- -S-(C<sub>1</sub>-C<sub>5</sub> hydroxyalkyl),
- -S-(C<sub>1</sub>-C<sub>5</sub> alkyl)-phenyl,
- $-S-(C_1-C_5 \text{ alkyl})-O-(C_1-C_5 \text{ alkyl}),$
- $-S-(C_1-C_5 \text{ alkyl})-C(O)-OH$ ,
- $-S-(C_1-C_5 \text{ alkyl})-C(O)-(C_1-C_5 \text{ alkyl}),$
- $-S-(C_1-C_5 \text{ alkyl})-C(O)-O-(C_1-C_5 \text{ alkyl}),$
- -S-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)-NH<sub>2</sub>
- $-S-(C_1-C_5 \text{ alkyl})-C(O)-NH-(C_1-C_5 \text{ alkyl}),$

$$-S-(C_1-C_5 \text{ alkyl})-C(O)-N-(C_1-C_5 \text{ alkyl})_2$$

$$-S-(C_1-C_5 \text{ alkyl})-NH-SO_2-(C_1-C_5 \text{ alkyl}),$$

$$-S-(C_1-C_5 \text{ alkyl})-SO_2-NH-(C_1-C_5 \text{ alkyl}),$$

$$-S-(C_1-C_5 \text{ alkyl})-SO_2-N-(C_1-C_5 \text{ alkyl})_2$$
,

$$-S-(C_1-C_5 \text{ alkyl})-P(O)-(O-C_1-C_5 \text{ alkyl})_2$$
,

$$-S-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl}),$$

$$-S-(C_1-C_5 \text{ alkyl})-S(O)-NH_2$$

$$-S-(C_1-C_5 \text{ alkyl})-S(O)-NH-(C_1-C_5 \text{ alkyl}),$$

$$-S-(C_1-C_5 \text{ alkyl})-S(O)-N-(C_1-C_5 \text{ alkyl})_2$$
,

$$-S-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl}),$$

$$-SO_2-(C_1-C_5)$$
-phenyl,

$$-SO_2$$
-NH-(C<sub>1</sub>-C<sub>5</sub> alkyl),

$$-SO_2$$
-NH-CH<sub>2</sub>-C(O)(O-C<sub>1</sub>-C<sub>5</sub> alkyl),

$$-SO_2$$
-NH-C(O)-(C<sub>1</sub>-C<sub>5</sub> alkyl),

$$-SO_2-N-(C_1-C_5 \text{ alkyl})_2$$

$$-SO_2$$
-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)-(C<sub>1</sub>-C<sub>5</sub> alkyl),

$$-SO_2-(C_1-C_5 \text{ alkyl}) \text{ NH}_2$$

$$-SO_2-(C_1-C_5 \text{ alkyl})-NH-(C_1-C_5 \text{ alkyl}),$$

$$-SO_2$$
-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-(C<sub>1</sub>-C<sub>5</sub> alkyl)<sub>2</sub>

$$-SO_2-(C_1-C_5 \text{ alkyl})-C(O)-NH_2$$

$$-SO_2-(C_1-C_5 \text{ alkyl})-C(O)-NH-(C_1-C_5 \text{ alkyl}),$$

$$-SO_2-(C_1-C_5 \ alkyl)-C(O)-N-(C_1-C_5 \ alkyl)_2,$$

$$-SO_2-(C_1-C_5 \ alkyl)-NH-SO_2-(C_1-C_5 \ alkyl),\\$$

$$\hbox{-SO}_2\hbox{-}(C_1\hbox{-}C_5 \text{ alkyl})\hbox{-}(1\hbox{-methylpyrrolidin-}2\hbox{-one-}3\hbox{-yl}),$$

$$\hbox{-SO}_2\hbox{-}(C_1\hbox{-}C_5 \text{ alkyl})\hbox{-}C(O)\hbox{-}O\hbox{-}(C_1\hbox{-}C_5 \text{ alkyl}),$$

$$-SO_2-(C_1-C_5 \text{ alkyl})-C(O)-OH,$$

$$\hbox{-SO}_2\hbox{-}(C_1\hbox{-}C_5 \text{ alkyl})\hbox{-SO}_2\hbox{-}(C_1\hbox{-}C_5 \text{ alkyl}),$$

$$-SO_2-(C_1-C_5 \text{ alkyl})-SO_2-NH_2$$

$$\hbox{-SO}_2\hbox{-}(C_1\hbox{-}C_5 \text{ alkyl})\hbox{-SO}_2\hbox{-NH-}(C_1\hbox{-}C_5 \text{ alkyl}),$$

$$-SO_2$$
-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-N-(C<sub>1</sub>-C<sub>5</sub> alkyl)<sub>2</sub>,

$$\hbox{-SO}_2\hbox{-}(C_1\hbox{-}C_5 \text{ alkyl})\hbox{-P(O)-}(O\hbox{-}C_1\hbox{-}C_5 \text{ alkyl})_2 \;,$$

$$\hbox{-SO}_2\hbox{-}(C_1\hbox{-}C_5 \text{ alkyl}),$$

- -SO<sub>2</sub>-(C<sub>2</sub>-C<sub>5</sub> alkenyl),
- -SO<sub>2</sub>-(C<sub>3</sub>-C<sub>5</sub> cycloalkyl),
- -SO<sub>2</sub>-(C<sub>3</sub>-C<sub>5</sub> cycloalkenyl),
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> hydroxyalkyl),
- -SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> fluoroalkyl),
- $-SO_2-(C_1-C_5)$ -phenyl,
- $-SO_2-N=CHN(C_1-C_5 \text{ alkyl})$  2.
- -S(O)-NH<sub>2</sub>
- $-S(O)-NH-(C_1-C_5 alkyl),$
- -S(O)-NH-CH<sub>2</sub>-C(O)OH
- $-S(O)-NH-(C_1-C_5 alkyl)-C(O)OH$ ,
- $-S(O)-NH-CH_2-C(O)(O-C_1-C_5 \text{ alkyl}),$
- $-S(O)-NH-(C_1-C_5 \text{ alkyl})-C(O)(O-C_1-C_5 \text{ alkyl}),$
- $-S(O)HC(O)-(C_3-C_6 \text{ cycloalkyl}),$
- $-S(O)-NH-C(O)-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-N-(C_1-C_5 \text{ alkyl})_2$
- $-S(O)-(C_1-C_5 \text{ alkyl})-O-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-(O-C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-NH-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-N-(C_1-C_5 \text{ alkyl})_2$
- $-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-NH_2$
- $-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-NH-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-N-(C_1-C_5 \text{ alkyl})_2$
- $-S(O)-(C_1-C_5 \text{ alkyl})-NH-SO_2-(C_1-C_5 \text{ alkyl}),$
- $-S(O)-(C_1-C_5 \text{ alkyl})-NH-S(O)-(C_1-C_5 \text{ alkyl}),$
- -S(O)-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidin-2-one,
- -S(O)-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidine,
- -S(O)-(C<sub>1</sub>-C<sub>5</sub> alkyl)-(1-methylpyrrolidin-2-one-3-yl),

$$-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-(O-C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-C(O)-OH$$
,

$$-S(O)-(C_1-C_5 \text{ alkyl})-5-\text{tetrazolyl},$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-SO_2-NH_2$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-S(O)-NH_2$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-SO_2-NH-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-S(O)-NH-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-SO_2-N-(C_1-C_5 \text{ alkyl})_2$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-S(O)-N-(C_1-C_5 \text{ alkyl})_2$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-SO_2-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl}),$$

$$-S(O)-(C_1-C_5 \text{ alkyl})-P(O)-(O-C_1-C_5 \text{ alkyl})_2$$
,

$$-S(O)-N=CHN(C_1-C_5 \text{ alkyl}) 2$$
.

$$-NHC(S)NH_2$$

$$-NHC(S)N-(C_1-C_5 alkyl)_2$$
,

$$-NHC(S)NH-(C_1-C_5 alkyl)-O-(C_1-C_5 alkyl),$$

$$-NHC(S)NH-(C_1-C_5 \text{ alkyl})-C(O)-(C_1-C_5 \text{ alkyl}),$$

$$-NHC(S)NH-(C_1-C_5 \text{ alkyl})-C(O)-(O-C_1-C_5 \text{ alkyl}),$$

- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-NH<sub>2</sub>
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-NH-(C_1-C_5 \text{ alkyl}),$
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-(C<sub>1</sub>-C<sub>5</sub> alkyl)<sub>2</sub>
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-C(O)-NH<sub>2</sub>
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-C(O)-NH-(C_1-C_5 \text{ alkyl}),$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-C(O)-N-(C_1-C_5 \text{ alkyl})_2$
- $-NHC(S)NH-(C_1-C_5 alkyl)-NH-SO_2-(C_1-C_5 alkyl),$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-NH-S(O)-(C_1-C_5 \text{ alkyl}),$
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidin-2-one,
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-N-pyrrolidine,
- $\hbox{-NHC}(S) \hbox{NH-}(C_1\hbox{-}C_5 \ alkyl)\hbox{-}(1\hbox{-methylpyrrolidin-}2\hbox{-one-}$ 3-y1),
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-5-tetrazolyl,
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>5</sub> alkyl),
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-SO<sub>2</sub>-NH<sub>2</sub>
- $-NHC(S)NH-(C_1-C_5 alkyl)-SO_2-NH-(C_1-C_5 alkyl),$
- $-NHC(S)NH-(C_1-C_5 alkyl)-SO_2-N-(C_1-C_5 alkyl)_2$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-S(O)-(C_1-C_5 \text{ alkyl}),$
- -NHC(S)NH-(C<sub>1</sub>-C<sub>5</sub> alkyl)-S(O)-NH<sub>2</sub>
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-S(O)-NH-(C_1-C_5 \text{ alkyl}),$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-S(O)-N-(C_1-C_5 \text{ alkyl})_2$
- $-NHC(S)NH-(C_1-C_5 \text{ alkyl})-P(O)-(O-C_1-C_5 \text{ alkyl})_2$
- -NHC(O)NH<sub>2</sub>,
- $-NHC(O)NH-(C_1-C_5 \text{ alkyl}),$
- $-NHC(O)N-(C_1-C_5 alkyl)_2$ ,
- -NHC(O)NH-(C2-C5 alkenyl),
- -NHC(O)NH-(C3-C5 cycloalkyl),
- -NHC(O)NH-(C3-C5 cycloalkenyl),
- -NHC(O)NH-(C<sub>1</sub>-C<sub>5</sub> hydroxyalkyl),

```
-NHC(O)NH-(C<sub>1</sub>-C<sub>5</sub> fluoroalkyl),
```

$$\hbox{-NHC}(O)\hbox{NH-}(C_1\hbox{-}C_5\ alkyl)\hbox{-NH-}(C_1\hbox{-}C_5\ alkyl),$$

$$-NHC(O)NH-(C_1-C_5 alkyl)-C(O)-NH-(C_1-C_5 alkyl),$$

$$\hbox{-NHC}(O)\hbox{NH-}(C_1\hbox{-}C_5 \ alkyl)\hbox{-}C(O)\hbox{-}(C_1\hbox{-}C_5 \ alkyl),$$

$$-NHC(O)NH-(C_1-C_5 alkyl)-NH-SO_2-(C_1-C_5 alkyl),$$

$$\hbox{-NHC}(O)\hbox{NH-}(\hbox{$C_1$-$$$}\hbox{$C_5$ alkyl)-C}(O)\hbox{-OH},$$

-NHC(O)NH-(
$$C_1$$
- $C_5$  alkyl)-C(O)-O-( $C_1$ - $C_5$  alkyl),

$$\hbox{-NHC(O)NH-(C$_1$-C$_5$ alkyl)-SO$_2$-(C$_1$-C$_5$ alkyl),}\\$$

$$-NHC(O)NH-(C_1-C_5 \text{ alkyl})-SO_2-NH_2$$

$$\hbox{-NHC}(O)\hbox{NH-}(C_1\hbox{-}C_5 \ alkyl) \hbox{-SO}_2\hbox{-NH-}(C_1\hbox{-}C_5 \ alkyl),$$

$$-NHC(O)NH-(C_1-C_5 \text{ alkyl})-SO_2-N-(C_1-C_5 \text{ alkyl})_2$$

$$-NH2$$

$$-NH-(C_1-C_5 \text{ alkyl}),$$

- $-N-(C_1-C_5 \text{ alkyl})_2$
- $-NH-C(O)-NH_2$ ,
- $-NH-C(O)-NH-(C_1-C_5 alkyl),$
- -NH-C(O)-N- $(C_1-C_5 \text{ alkyl})_2$ .
- -NH-C(O)-( $C_1$ - $C_5$  alkyl),
- $-NH-SO_2-(C_1-C_5 \text{ alkyl}),$
- -NH-S(O)-( $C_1$ - $C_5$  alkyl),
- -N(CH<sub>3</sub>)(OCH<sub>3</sub>),
- $-N(OH)(CH_3),$
- -N-pyrrolidin-2-one,
- -N-pyrrolidine,
- -(1-methylpyrrolidin-2-one-3-yl),
- -CO<sub>2</sub>H,
- -CO<sub>2</sub>Me,
- -CO<sub>2</sub>Et,
- $-C(O)CH_2S(O)Me$ ,
- $-C(O)CH_2S(O)Et$ ,
- $-C(O)CH_2S(O)_2Me$ ,
- -C(O)CH<sub>2</sub>S(O)<sub>2</sub>Et,
- -C(O)CH<sub>2</sub>CH<sub>2</sub>S(O)Me,
- $-C(O)CH_2CH_2S(O)Et$ ,
- $-C(O)CH_2CH_2S(O)_2Me$ ,
- $\hbox{-C(O)CH}_2\hbox{CH}_2\hbox{S(O)}_2\hbox{Et},$
- -C(O)CH(Me)CH<sub>2</sub>CO<sub>2</sub>H,
- -C(O)CH(Me)CH<sub>2</sub>CO<sub>2</sub>Me,
- -C(O)CH(Me)CH<sub>2</sub>CO<sub>2</sub>Et,
- -C(O)CH(Me)CH2CO2iPr,
- -C(O)CH(Me)CH2CO2tBu,
- -C(O)CH(Me)CH(Me)CO<sub>2</sub>H,

- -C(O)CH(Me)CH(Me)CO<sub>2</sub>Me,
- -C(O)CH(Me)CH(Me)CO<sub>2</sub>Et,
- -C(O)CH(Me)CH(Me)CO2iPr,
- -C(O)CH(Me)CH(Me)CO2tBu,
- -C(O)CH(Me)C(Me) 2CO<sub>2</sub>H,
- $-C(O)CH(Me)C(Me) \ _2CO_2Me,$
- -C(O)CH(Me)C(Me) 2CO2Et,
- -C(O)CH(Me)C(Me) 2CO2iPr,
- -C(O)CH(Me)C(Me) 2CO2tBu,
- -C(O)CH(Me)CH(Et)CO<sub>2</sub>H,
- -C(O)CH(Me)CH(Et)CO<sub>2</sub>Me,
- -C(O)CH(Me)CH(Et)CO<sub>2</sub>Et,
- -C(O)CH(Me)CH(Et)CO2iPr,
- -C(O)CH(Me)CH(Et)CO<sub>2</sub>tBu,
- -C(O)C(O)OH,
- -C(O)C(O)NH<sub>2</sub>,
- -C(O)C(O)NHMe,
- $-C(O)C(O)NMe_2$ ,
- -C(O)NH<sub>2</sub>,
- -C(O)NMe2,
- $-C(O)NH-CH_2-C(O)OH$ ,
- $-C(O)NH-CH_2-C(O)OMe$ ,
- $-C(O)NH-CH_2-C(O)OEt$ ,
- -C(O)NH-CH<sub>2</sub>-C(O)OiPr,
- $-C(O)NH-CH_2-C(O)OtBu$ ,
- -C(O)NH-CH(Me)-C(O)OH,
- -C(O)NH-CH(Me)-C(O)OMe,
- -C(O)NH-CH(Me)-C(O)OEt,
- -C(O)NH-CH(Me)-C(O)iPr,
- -C(O)NH-CH(Me)-C(O)tBu,
- -C(O)NH-CH(Et)-C(O)OH,

- $-C(O)NH-C(Me)_2-C(O)OH$ ,
- $-C(O)NH-C(Me)_2-C(O)OMe$ ,
- $-C(O)NH-C(Me)_2-C(O)OEt$ ,
- $-C(O)NH-C(Me)_2-C(O)iPr$ ,
- $-C(O)NH-C(Me)_2-C(O)tBu$ ,
- -C(O)NH-CMe(Et)-C(O)OH,
- -C(O)NH-CH(F)-C(O)OH,
- -C(O)NH-CH(CF<sub>3</sub>)-C(O)OH,
- -C(O)NH-CH(OH)-C(O)OH,
- -C(O)NH-CH(cyclopropyl)-C(O)OH,
- $-C(O)NH-C(Me)_2-C(O)OH$ ,
- $-C(O)NH-C(Me)_2-C(O)OH$ ,
- -C(O)NH-CF(Me)-C(O)OH,
- $-C(O)NH-C(Me)(CF_3)-C(O)OH$ ,
- -C(O)NH-C(Me)(OH)-C(O)OH,
- -C(O)NH-C(Me)(cyclopropyl)CO<sub>2</sub>H
- -C(O)NMe-CH<sub>2</sub>-C(O)OH,
- -C(O)NMe-CH<sub>2</sub>-C(O)OMe,
- $-C(O)NMe-CH_2-C(O)OEt$ ,
- -C(O)NMe-CH<sub>2</sub>-C(O)OiPr,
- -C(O)NMe-CH<sub>2</sub>-C(O)tBu,
- -C(O)NMe-CH<sub>2</sub>-C(O)OH,
- -C(O)NMe-CH(Me)-C(O)OH,
- -C(O)NMe-CH(F)-C(O)OH,
- $-C(O)NMe-CH(CF_3)-C(O)OH$ ,
- -C(O)NMe-CH(OH)-C(O)OH,
- -C(O)NMe-CH(cyclopropyl)-C(O)OH,
- $-C(O)NMe-C(Me)_2-C(O)OH$ ,
- -C(O)NMe-CF(Me)-C(O)OH,
- $-C(O)NMe-C(Me)(CF_3)-C(O)OH$ ,
- -C(O)NMe-C(Me)(OH)-C(O)OH,
- -C(O)NMe-C(Me)(cyclopropyl)-C(O)OH,
- -C(O)NHS(O)Me,

- -C(O)NHSO<sub>2</sub>Me,
- -C(O)-NH-5-tetrazolyl,
- -C(O)NHS(O)Me,
- -C(O)NHS(O)Et,
- -C(O)NHSO<sub>2</sub>Me,
- -C(O)NHSO<sub>2</sub>Et,
- -C(O)NHS(O)iPr,
- -C(O)NHSO2iPr,
- -C(O)NHS(O)tBu,
- -C(O)NHSO2tBu,
- -C(O)NHCH<sub>2</sub>S(O)Me,
- -C(O)NHCH<sub>2</sub>S(O)Et,
- -C(O)NHCH2SO2Me,
- -C(O)NHCH2SO2Et,
- -C(O)NHCH2CH2S(O)Me,
- -C(O)NHCH2CH2S(O)Et,
- -C(O)NHCH2CH2SO2Me,
- -C(O)NHCH2CH2SO2Et,
- -C(O)N(Me)S(O)Me,
- -C(O)N(Me)SO<sub>2</sub>Me,
- -C(O)-N(Me)-5-tetrazolyl,
- -C(O)N(Me)S(O)Me,
- -C(O)N(Me)S(O)Et,
- $-C(O)N(Me)SO_2Me$ ,
- $-C(O)N(Me)SO_2Et$ ,
- -C(O)N(Me)S(O)iPr,
- -C(O)N(Me))SO2iPr,
- -C(O)N(Me))S(O)tBu,
- -C(O)N(Me)SO2tBu,
- $-C(O)N(Me)CH_2S(O)Me$ ,

- -C(O)N(Me)CH<sub>2</sub>S(O)Et,
- -C(O)N(Me)CH<sub>2</sub>SO<sub>2</sub>Me,
- -C(O)N(Me)CH<sub>2</sub>SO<sub>2</sub>Et,
- $-C(O)N(Me)CH_2CH_2S(O)Me$ ,
- -C(O)N(Me)CH<sub>2</sub>CH<sub>2</sub>S(O)Et,
- -C(O)N(Me)CH2CH2SO2Me,
- $-C(O)N(Me)CH_2CH_2SO_2Et$ ,
- -CH<sub>2</sub>CO<sub>2</sub>H,
- -CH<sub>2</sub>-5-tetrazolyl,
- -CH<sub>2</sub>CO<sub>2</sub>Me,
- -CH<sub>2</sub>CO<sub>2</sub>Et,
- -CH<sub>2</sub>NHS(O)Me,
- -CH<sub>2</sub>NHS(O)Et,
- -CH<sub>2</sub>NHSO<sub>2</sub>Me,
- -CH<sub>2</sub>NHSO<sub>2</sub>Et,
- -CH2NHS(O)iPr,
- -CH2NHSO2iPr,
- -CH2NHS(O)tBu,
- -CH2NHSO2tBu,
- -CH<sub>2</sub>NHCH<sub>2</sub>CH<sub>2</sub>SO<sub>2</sub>CH<sub>3</sub>,
- -CH2NH(CH2CO2H),
- -CH<sub>2</sub>N(C(O)Me)(CH<sub>2</sub>CO<sub>2</sub>H),
- -CH<sub>2</sub>-N-pyrrolidin-2-one,
- -CH<sub>2</sub>-(1-methylpyrrolidin-2-one-3-yl),
- -CH<sub>2</sub>S(O)Me,
- $-CH_2S(O)Et$ ,
- $-CH_2S(O)_2Me$ ,
- -CH<sub>2</sub>S(O)<sub>2</sub>Et,
- -CH<sub>2</sub>S(O)iPr,

- $-CH_2S(O)_2iPr$ ,
- -CH<sub>2</sub>S(O)tBu,
- -CH<sub>2</sub>S(O)<sub>2</sub>tBu,
- -CH<sub>2</sub>CO<sub>2</sub>H, CH<sub>2</sub>C(O)NH<sub>2</sub>,
- -CH<sub>2</sub>C(O)NMe<sub>2</sub>,
- -CH<sub>2</sub>C(O)NHMe,
- -CH<sub>2</sub>C(O)-N-pyrrolidine,
- $-CH_2S(O)_2Me$ ,  $CH_2S(O)Me$ ,
- -CH(OH) CO<sub>2</sub>H,
- $-CH(OH)C(O)NH_2$ ,
- -CH(OH)C(O)NHMe,
- -CH(OH)C(O)NMe2,
- -CH(OH)C(O)NEt<sub>2</sub>,
- -CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>H,
- -CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>Me,
- -CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>Et,
- $-CH_2CH_2C(O)NH_2$ ,
- -CH<sub>2</sub>CH<sub>2</sub>C(O)NHMe,
- -CH<sub>2</sub>CH<sub>2</sub>C(O)NMe<sub>2</sub>,
- -CH<sub>2</sub>CH<sub>2</sub>-5-tetrazolyl,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)<sub>2</sub>Me,
- $-CH_2CH_2S(O)Me$ ,
- $-CH_2CH_2S(O)_2Et$ ,
- $-CH_2CH_2S(O)$  Et,
- -CH2CH2S(O)iPr,
- -CH2CH2S(O)2iPr,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)tBu,
- -CH2CH2S(O)2tBu,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)NH<sub>2</sub>,

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- -CH<sub>2</sub>CH<sub>2</sub>S(O)NHMe,
- $-CH_2CH_2S(O)NMe_2$ ,
- $-CH_2CH_2S(O)_2NH_2$ ,
- $\hbox{-CH}_2\hbox{CH}_2\hbox{S}(O)_2\hbox{NHMe}$
- $-\mathsf{CH}_2\mathsf{CH}_2\mathsf{S}(\mathsf{O})_2\mathsf{NMe}_2,$
- $-CH_2CH_2CH_2S(O)Me,\\$
- $\hbox{-CH}_2\hbox{CH}_2\hbox{CH}_2S(O)\hbox{Et},$
- $-CH_2CH_2CH_2S(O)_2Me,\\$
- $-CH_2CH_2CH_2S(O)_2Et,\\$

-5-tetrazolyl,

$$\begin{array}{c|c} O & O \\ \hline \\ \hline \\ C \\ \hline \\ O \\ \end{array} \text{NH} \begin{array}{c} O \\ \hline \\ S \\ \hline \\ O \\ \end{array} \text{CH}_3$$

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- -1,3,4-oxadiazolin-2-one-5-yl,
- -imidazolidine-2,4-dione-5-yl,
- -isoxazol-3-ol-yl, or
- -1,3,4-oxadiazolin-2-thione-5-yl.

## 7. (currently amended) The compound of Claim 1, or a pharmaceutically acceptable salt thereof.

wherein for Formula IA;

R and R' are independently methy or ethyl;

RP and RT<sub>3</sub> are independently, hydrogen or methyl;

RP<sub>3</sub> and RB are independently hydrogen, methyl, ethyl, -O-methyl, or cyclopropyl;

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 $(L_{P1})$  and  $(L_{TB})$  divalent linking groups are both bonds;

 $(L_{P2})$  is a bond,  $-CH_2$ -, -CH(OH)-, or -C(Me)OH-;

Zp is 1,1-dimethylethyl; 1-hydroxycyclopentyl, 1-hydroxycyclohexyl,

3-ethyl-3-hydroxypentyl, 3-ethyl-3-hydroxypentenyl, 3-ethyl-3-hydroxypentynyl;

 $Z_{TB}$  is

- -CO<sub>2</sub>H,
- -CO<sub>2</sub>Me,
- -CO<sub>2</sub>Et,
- -C(O)CH<sub>2</sub>S(O)Me,
- $-C(O)CH_2S(O)Et$ ,
- -C(O)CH<sub>2</sub>S(O)<sub>2</sub>Me,
- $-C(O)CH_2S(O)_2Et$ ,
- $-C(O)CH_2CH_2S(O)Me$ ,
- $-C(O)CH_2CH_2S(O)Et$ ,
- $-C(O)CH_2CH_2S(O)_2Me$ ,
- $-C(O)CH_2CH_2S(O)_2Et$ ,
- -C(O)CH(Me)CH<sub>2</sub>CO<sub>2</sub>H,
- -C(O)CH(Me)CH2CO2Me,
- -C(O)CH(Me)CH<sub>2</sub>CO<sub>2</sub>Et,
- -C(O)CH(Me)CH<sub>2</sub>CO<sub>2</sub>iPr,
- -C(O)CH(Me)CH2CO2tBu,
- -C(O)CH(Me)CH(Me)CO<sub>2</sub>H,
- -C(O)CH(Me)CH(Me)CO<sub>2</sub>Me,
- -C(O)CH(Me)CH(Me)CO<sub>2</sub>Et,
- -C(O)CH(Me)CH(Me)CO2iPr,
- -C(O)CH(Me)CH(Me)CO2tBu,
- -C(O)CH(Me)C(Me) 2CO2H,
- -C(O)CH(Me)C(Me) 2CO2Me,
- -C(O)CH(Me)C(Me) 2CO2Et,
- -C(O)CH(Me)C(Me) 2CO2iPr,

- -C(O)CH(Me)C(Me) 2CO2tBu,
- -C(O)CH(Me)CH(Et)CO<sub>2</sub>H,
- -C(O)CH(Me)CH(Et)CO<sub>2</sub>Me,
- -C(O)CH(Me)CH(Et)CO<sub>2</sub>Et,
- -C(O)CH(Me)CH(Et)CO2iPr,
- -C(O)CH(Me)CH(Et)CO2tBu,
- -C(O)C(O)OH,
- -C(O)C(O)NH<sub>2</sub>,
- -C(O)C(O)NHMe,
- $-C(O)C(O)NMe_2$ ,
- $-C(O)NH_2$ ,
- $-C(O)NMe_2$ ,
- $-C(O)NH-CH_2-C(O)OH$ ,
- $-C(O)NH-CH_2-C(O)OMe$ ,
- $-C(O)NH-CH_2-C(O)OEt$ ,
- -C(O)NH-CH<sub>2</sub>-C(O)OiPr,
- -C(O)NH-CH<sub>2</sub>-C(O)OtBu,
- -C(O)NH-CH(Me)-C(O)OH,
- -C(O)NH-CH(Me)-C(O)OMe,
- -C(O)NH-CH(Me)-C(O)OEt,
- -C(O)NH-CH(Me)-C(O)iPr,
- -C(O)NH-CH(Me)-C(O)tBu,
- -C(O)NH-CH(Et)-C(O)OH,
- $-C(O)NH-C(Me)_2-C(O)OH$ ,
- $-C(O)NH-C(Me)_2-C(O)OMe$ ,
- $-C(O)NH-C(Me)_2-C(O)OEt$ ,
- $-C(O)NH-C(Me)_2-C(O)iPr$ ,
- $-C(O)NH-C(Me)_2-C(O)tBu$ ,
- -C(O)NH-CMe(Et)-C(O)OH,
- -C(O)NH-CH(F)-C(O)OH,
- -C(O)NH-CH(CF<sub>3</sub>)-C(O)OH,
- -C(O)NH-CH(OH)-C(O)OH,

- -C(O)NH-CH(cyclopropyl)-C(O)OH,
- $-C(O)NH-C(Me)_2-C(O)OH$ ,
- $-C(O)NH-C(Me)_2-C(O)OH$ ,
- -C(O)NH-CF(Me)-C(O)OH,
- $-C(O)NH-C(Me)(CF_3)-C(O)OH$ ,
- -C(O)NH-C(Me)(OH)-C(O)OH,
- -C(O)NH-C(Me)(cyclopropyl)CO<sub>2</sub>H
- -C(O)NMe-CH<sub>2</sub>-C(O)OH,
- -C(O)NMe-CH<sub>2</sub>-C(O)OMe,
- -C(O)NMe-CH<sub>2</sub>-C(O)OEt,
- -C(O)NMe-CH<sub>2</sub>-C(O)OiPr,
- -C(O)NMe-CH<sub>2</sub>-C(O)tBu,
- -C(O)NMe-CH<sub>2</sub>-C(O)OH,
- -C(O)NMe-CH(Me)-C(O)OH,
- -C(O)NMe-CH(F)-C(O)OH,
- -C(O)NMe-CH(CF<sub>3</sub>)-C(O)OH,
- -C(O)NMe-CH(OH)-C(O)OH,
- -C(O)NMe-CH(cyclopropyl)-C(O)OH,
- $-C(O)NMe-C(Me)_2-C(O)OH$ ,
- -C(O)NMe-CF(Me)-C(O)OH,
- $-C(O)NMe-C(Me)(CF_3)-C(O)OH$ ,
- -C(O)NMe-C(Me)(OH)-C(O)OH,
- -C(O)NMe-C(Me)(cyclopropyl)-C(O)OH,
- -C(O)NHS(O)Me,
- -C(O)NHSO<sub>2</sub>Me,
- -C(O)-NH-5-tetrazolyl,
- -C(O)NHS(O)Me,
- -C(O)NHS(O)Et,
- -C(O)NHSO<sub>2</sub>Me,
- -C(O)NHSO<sub>2</sub>Et,
- -C(O)NHS(O)iPr,
- -C(O)NHSO2iPr,
- -C(O)NHS(O)tBu,

- -C(O)NHSO2tBu,
- $-C(O)NHCH_2S(O)Me$ ,
- -C(O)NHCH<sub>2</sub>S(O)Et,
- -C(O)NHCH<sub>2</sub>SO<sub>2</sub>Me,
- -C(O)NHCH2SO2Et,
- $-C(O)NHCH_2CH_2S(O)Me$ ,
- -C(O)NHCH2CH2S(O)Et,
- -C(O)NHCH2CH2SO2Me,
- -C(O)NHCH<sub>2</sub>CH<sub>2</sub>SO<sub>2</sub>Et,
- -C(O)N(Me)S(O)Me,
- -C(O)N(Me)SO<sub>2</sub>Me,
- -C(O)-N(Me)-5-tetrazolyl,
- -C(O)N(Me)S(O)Me,
- -C(O)N(Me)S(O)Et,
- $-C(O)N(Me)SO_2Me$ ,
- -C(O)N(Me)SO<sub>2</sub>Et,
- -C(O)N(Me)S(O)iPr,
- -C(O)N(Me))SO<sub>2</sub>iPr,
- -C(O)N(Me))S(O)tBu,
- $-C(O)N(Me)SO_2tBu$ ,
- $-C(O)N(Me)CH_2S(O)Me$ ,
- -C(O)N(Me)CH<sub>2</sub>S(O)Et,
- $-C(O)N(Me)CH_2SO_2Me$ ,
- -C(O)N(Me)CH<sub>2</sub>SO<sub>2</sub>Et,
- $-C(O)N(Me)CH_2CH_2S(O)Me$ ,
- -C(O)N(Me)CH2CH2S(O)Et,
- -C(O)N(Me)CH<sub>2</sub>CH<sub>2</sub>SO<sub>2</sub>Me,
- -C(O)N(Me)CH<sub>2</sub>CH<sub>2</sub>SO<sub>2</sub>Et,
- -CH<sub>2</sub>CO<sub>2</sub>H,
- -CH<sub>2</sub>-5-tetrazolyl,

- $\hbox{-CH}_2\hbox{CO}_2\hbox{Me},$
- -CH<sub>2</sub>CO<sub>2</sub>Et,
- -CH<sub>2</sub>NHS(O)Me,
- -CH<sub>2</sub>NHS(O)Et,
- -CH<sub>2</sub>NHSO<sub>2</sub>Me,
- -CH<sub>2</sub>NHSO<sub>2</sub>Et,
- -CH<sub>2</sub>NHS(O)iPr,
- -CH<sub>2</sub>NHSO<sub>2</sub>iPr,
- $-CH_2NHS(O)tBu,\\$
- -CH2NHSO2tBu,
- -CH<sub>2</sub>NHCH<sub>2</sub>CH<sub>2</sub>SO<sub>2</sub>CH<sub>3</sub>,
- -CH2NH(CH2CO2H),
- $-CH_2N(C(O)Me)(CH_2CO_2H),$
- -CH<sub>2</sub>-N-pyrrolidin-2-one,
- -CH<sub>2</sub>-(1-methylpyrrolidin-2-one-3-yl),
- -CH<sub>2</sub>S(O)Me,
- -CH<sub>2</sub>S(O)Et,
- -CH<sub>2</sub>S(O)<sub>2</sub>Me,
- -CH<sub>2</sub>S(O)<sub>2</sub>Et,
- -CH<sub>2</sub>S(O)iPr,
- -CH<sub>2</sub>S(O)<sub>2</sub>iPr,
- $-CH_2S(O)tBu$ ,
- $-CH_2S(O)_2tBu$ ,
- -CH<sub>2</sub>CO<sub>2</sub>H, CH<sub>2</sub>C(O)NH<sub>2</sub>,
- $-CH_2C(O)NMe_2$ ,
- -CH<sub>2</sub>C(O)NHMe,
- -CH<sub>2</sub>C(O)-N-pyrrolidine,
- $-CH_2S(O)_2Me$ ,  $CH_2S(O)Me$ ,
- -CH(OH) CO<sub>2</sub>H,

- -CH(OH)C(O)NH<sub>2</sub>,
- -CH(OH)C(O)NHMe,
- $-CH(OH)C(O)NMe_2$ ,
- $\hbox{-CH}(OH)C(O)NEt_2,$
- -CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>H,
- -CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>Me,
- -CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>Et,
- $-CH_2CH_2C(O)NH_2$ ,
- $-CH_2CH_2C(O)NHMe,\\$
- -CH2CH2C(O)NMe2,
- -CH<sub>2</sub>CH<sub>2</sub>-5-tetrazolyl,
- $-CH_2CH_2S(O)_2Me$ ,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)Me,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)<sub>2</sub>Et,
- $-CH_2CH_2S(O)$  Et,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)iPr,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)<sub>2</sub>iPr,
- $-CH_2CH_2S(O)tBu$ ,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)<sub>2</sub>tBu,
- $-CH_2CH_2S(O)NH_2$ ,
- $-CH_2CH_2S(O)NHMe,$
- $-CH_2CH_2S(O)NMe_2,\\$
- $-CH_2CH_2S(O)_2NH_2$ ,
- $-CH_2CH_2S(O)_2NHMe$
- -CH<sub>2</sub>CH<sub>2</sub>S(O)<sub>2</sub>NMe<sub>2</sub>,
- -CH2CH2CH2S(O)Me,

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-CH2CH2CH2S(O)Et,

-CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>S(O)<sub>2</sub>Me, or

 $-CH_2CH_2CH_2S(O)_2Et$ .

8. (currently amended) The compound of claim 2, or a pharmaceutically acceptable salt thereof, wherein for formula IB;

R and R' are independently methy or ethyl;

RP, RB, RB<sub>4</sub>, and RT<sub>3</sub> are independently, hydrogen or methyl;

RP<sub>3</sub> and RB<sub>7</sub> are independently hydrogen, methyl, ethyl, -O-methyl, or cyclopropyl;

(L<sub>P1</sub>) and (L<sub>BT</sub>) divalent linking groups are both bonds;

(L<sub>P2</sub>) is a bond, -CH<sub>2</sub>-, -CH(OH)-, or -C(Me)OH-;

Zp is 1,1-dimethylethyl; 1-hydroxycyclopentyl, 1-hydroxycyclohexyl,

3-ethyl-3-hydroxypentyl, 3-ethyl-3-hydroxypentenyl, 3-ethyl-3-hydroxypentynyl;

 $Z_{BT}$  is

-CO<sub>2</sub>H,

-CO<sub>2</sub>Me,

-CO<sub>2</sub>Et,

-C(O)CH<sub>2</sub>S(O)Me,

-C(O)CH<sub>2</sub>S(O)Et,

-C(O)CH<sub>2</sub>S(O)<sub>2</sub>Me,

-C(O)CH<sub>2</sub>S(O)<sub>2</sub>Et,

-C(O)CH2CH2S(O)Me,

-C(O)CH2CH2S(O)Et,

 $-C(O)CH_2CH_2S(O)_2Me$ ,

-C(O)CH2CH2S(O)2Et,

-C(O)CH(Me)CH2CO2H,

-C(O)CH(Me)CH2CO2Me,

-C(O)CH(Me)CH2CO2Et,

-C(O)CH(Me)CH2CO2iPr,

-C(O)CH(Me)CH2CO2tBu,

- $-C(O)CH(Me)CH(Me)CO_2H$ ,
- -C(O)CH(Me)CH(Me)CO<sub>2</sub>Me,
- -C(O)CH(Me)CH(Me)CO<sub>2</sub>Et,
- -C(O)CH(Me)CH(Me)CO2iPr,
- -C(O)CH(Me)CH(Me)CO<sub>2</sub>tBu,
- -C(O)CH(Me)C(Me) 2CO2H,
- -C(O)CH(Me)C(Me) 2CO<sub>2</sub>Me,
- -C(O)CH(Me)C(Me) 2CO2Et,
- -C(O)CH(Me)C(Me) 2CO2iPr,
- -C(O)CH(Me)C(Me) 2CO2tBu,
- -C(O)CH(Me)CH(Et)CO<sub>2</sub>H,
- -C(O)CH(Me)CH(Et)CO<sub>2</sub>Me,
- -C(O)CH(Me)CH(Et)CO<sub>2</sub>Et,
- -C(O)CH(Me)CH(Et)CO2iPr,
- -C(O)CH(Me)CH(Et)CO2tBu,
- -C(O)C(O)OH,
- $-C(O)C(O)NH_2$ ,
- -C(O)C(O)NHMe,
- $-C(O)C(O)NMe_2$ ,
- -C(O)NH<sub>2</sub>,
- $-C(O)NMe_2$ ,
- $-C(O)NH-CH_2-C(O)OH$ ,
- $-C(O)NH-CH_2-C(O)OMe$ ,
- $-C(O)NH-CH_2-C(O)OEt$ ,
- -C(O)NH-CH<sub>2</sub>-C(O)OiPr,
- -C(O)NH-CH<sub>2</sub>-C(O)OtBu,
- -C(O)NH-CH(Me)-C(O)OH,
- -C(O)NH-CH(Me)-C(O)OMe,
- -C(O)NH-CH(Me)-C(O)OEt,
- -C(O)NH-CH(Me)-C(O)iPr,
- -C(O)NH-CH(Me)-C(O)tBu,

- -C(O)NH-CH(Et)-C(O)OH,
- $-C(O)NH-C(Me)_2-C(O)OH$ ,
- $-C(O)NH-C(Me)_2-C(O)OMe$ ,
- $-C(O)NH-C(Me)_2-C(O)OEt$ ,
- $-C(O)NH-C(Me)_2-C(O)iPr$ ,
- $-C(O)NH-C(Me)_2-C(O)tBu$ ,
- -C(O)NH-CMe(Et)-C(O)OH,
- -C(O)NH-CH(F)-C(O)OH,
- -C(O)NH-CH(CF<sub>3</sub>)-C(O)OH,
- -C(O)NH-CH(OH)-C(O)OH,
- -C(O)NH-CH(cyclopropyl)-C(O)OH,
- $-C(O)NH-C(Me)_2-C(O)OH$ ,
- $-C(O)NH-C(Me)_2-C(O)OH$ ,
- -C(O)NH-CF(Me)-C(O)OH,
- $-C(O)NH-C(Me)(CF_3)-C(O)OH$ ,
- -C(O)NH-C(Me)(OH)-C(O)OH,
- -C(O)NH-C(Me)(cyclopropyl)CO<sub>2</sub>H
- -C(O)NMe-CH<sub>2</sub>-C(O)OH,
- $-C(O)NMe-CH_2-C(O)OMe$ ,
- $-C(O)NMe-CH_2-C(O)OEt$ ,
- -C(O)NMe-CH<sub>2</sub>-C(O)OiPr,
- -C(O)NMe-CH<sub>2</sub>-C(O)tBu,
- -C(O)NMe-CH<sub>2</sub>-C(O)OH,
- -C(O)NMe-CH(Me)-C(O)OH,
- -C(O)NMe-CH(F)-C(O)OH,
- $-C(O)NMe-CH(CF_3)-C(O)OH$ ,
- -C(O)NMe-CH(OH)-C(O)OH,
- -C(O)NMe-CH(cyclopropyl)-C(O)OH,
- $-C(O)NMe-C(Me)_2-C(O)OH$ ,
- -C(O)NMe-CF(Me)-C(O)OH,
- $-C(O)NMe-C(Me)(CF_3)-C(O)OH$ ,
- -C(O)NMe-C(Me)(OH)-C(O)OH,
- -C(O)NMe-C(Me)(cyclopropyl)-C(O)OH,

- -C(O)NHS(O)Me,
- -C(O)NHSO<sub>2</sub>Me,
- -C(O)-NH-5-tetrazolyl,
- -C(O)NHS(O)Me,
- -C(O)NHS(O)Et,
- -C(O)NHSO<sub>2</sub>Me,
- -C(O)NHSO<sub>2</sub>Et,
- -C(O)NHS(O)iPr,
- -C(O)NHSO2iPr,
- -C(O)NHS(O)tBu,
- -C(O)NHSO2tBu,
- -C(O)NHCH<sub>2</sub>S(O)Me,
- -C(O)NHCH<sub>2</sub>S(O)Et,
- -C(O)NHCH2SO2Me,
- -C(O)NHCH2SO2Et,
- $-C(O)NHCH_2CH_2S(O)Me$ ,
- -C(O)NHCH2CH2S(O)Et,
- -C(O)NHCH2CH2SO2Me,
- -C(O)NHCH2CH2SO2Et,
- -C(O)N(Me)S(O)Me,
- $-C(O)N(Me)SO_2Me$ ,
- -C(O)-N(Me)-5-tetrazolyl,
- -C(O)N(Me)S(O)Me,
- -C(O)N(Me)S(O)Et,
- -C(O)N(Me)SO<sub>2</sub>Me,
- -C(O)N(Me)SO<sub>2</sub>Et,
- -C(O)N(Me)S(O)iPr,
- -C(O)N(Me))SO<sub>2</sub>iPr,
- -C(O)N(Me))S(O)tBu,
- -C(O)N(Me)SO<sub>2</sub>tBu,
- -C(O)N(Me)CH<sub>2</sub>S(O)Me,

- -C(O)N(Me)CH<sub>2</sub>S(O)Et,
- -C(O)N(Me)CH<sub>2</sub>SO<sub>2</sub>Me,
- -C(O)N(Me)CH<sub>2</sub>SO<sub>2</sub>Et,
- $-C(O)N(Me)CH_2CH_2S(O)Me$ ,
- -C(O)N(Me)CH<sub>2</sub>CH<sub>2</sub>S(O)Et,
- -C(O)N(Me)CH2CH2SO2Me,
- $-C(O)N(Me)CH_2CH_2SO_2Et$ ,
- -CH<sub>2</sub>CO<sub>2</sub>H,
- -CH<sub>2</sub>-5-tetrazolyl,
- -CH<sub>2</sub>CO<sub>2</sub>Me,
- -CH<sub>2</sub>CO<sub>2</sub>Et,
- -CH<sub>2</sub>NHS(O)Me,
- -CH<sub>2</sub>NHS(O)Et,
- -CH<sub>2</sub>NHSO<sub>2</sub>Me,
- -CH<sub>2</sub>NHSO<sub>2</sub>Et,
- -CH2NHS(O)iPr,
- -CH2NHSO2iPr,
- -CH2NHS(O)tBu,
- -CH2NHSO2tBu,
- -CH<sub>2</sub>NHCH<sub>2</sub>CH<sub>2</sub>SO<sub>2</sub>CH<sub>3</sub>,
- -CH2NH(CH2CO2H),
- -CH<sub>2</sub>N(C(O)Me)(CH<sub>2</sub>CO<sub>2</sub>H),
- -CH<sub>2</sub>-N-pyrrolidin-2-one,
- -CH<sub>2</sub>-(1-methylpyrrolidin-2-one-3-yl),
- -CH<sub>2</sub>S(O)Me,
- $-CH_2S(O)Et$ ,
- $-CH_2S(O)_2Me$ ,
- -CH<sub>2</sub>S(O)<sub>2</sub>Et,
- -CH<sub>2</sub>S(O)iPr,

- - $-CH_2S(O)_2iPr$ , -CH<sub>2</sub>S(O)tBu,
  - -CH<sub>2</sub>S(O)<sub>2</sub>tBu,
  - -CH<sub>2</sub>CO<sub>2</sub>H, CH<sub>2</sub>C(O)NH<sub>2</sub>,
  - -CH<sub>2</sub>C(O)NMe<sub>2</sub>,
  - -CH<sub>2</sub>C(O)NHMe,
  - -CH<sub>2</sub>C(O)-N-pyrrolidine,
  - $-CH_2S(O)_2Me$ ,  $CH_2S(O)Me$ ,
  - -CH(OH) CO<sub>2</sub>H,
  - $-CH(OH)C(O)NH_2$ ,
  - -CH(OH)C(O)NHMe,
  - $\text{-CH}(\text{OH})\text{C}(\text{O})\text{NMe}_2,$
  - -CH(OH)C(O)NEt<sub>2</sub>,
  - -CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>H,
  - -CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>Me,
  - -CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>Et,
  - $-CH_2CH_2C(O)NH_2$ ,
  - -CH<sub>2</sub>CH<sub>2</sub>C(O)NHMe,
  - -CH<sub>2</sub>CH<sub>2</sub>C(O)NMe<sub>2</sub>,
  - -CH<sub>2</sub>CH<sub>2</sub>-5-tetrazolyl,
  - $-CH_2CH_2S(O)_2Me,\\$
  - $-CH_2CH_2S(O)Me$ ,
  - $-CH_2CH_2S(O)_2Et$ ,
  - $-CH_2CH_2S(O)$  Et,
  - -CH2CH2S(O)iPr,
  - -CH2CH2S(O)2iPr,
  - -CH<sub>2</sub>CH<sub>2</sub>S(O)tBu,
  - -CH2CH2S(O)2tBu,
  - -CH<sub>2</sub>CH<sub>2</sub>S(O)NH<sub>2</sub>,

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- -CH<sub>2</sub>CH<sub>2</sub>S(O)NHMe,
- $-CH_2CH_2S(O)NMe_2$ ,
- -CH2CH2S(O)2NH2,
- -CH2CH2S(O)2NHMe
- -CH<sub>2</sub>CH<sub>2</sub>S(O)<sub>2</sub>NMe<sub>2</sub>,
- -CH2CH2CH2S(O)Me,
- -CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>S(O)Et,
- -CH2CH2CH2S(O)2Me, or
- -CH2CH2CH2S(O)2Et.

## 9. (currently amended) The compound of claim 3, or a pharmaceutically acceptable salt thereof, wherein for formula IC;

R and R' are independently methy or ethyl;

RP, RB, RB<sub>4</sub>, and RT<sub>3</sub> are independently, hydrogen or methyl;

RP<sub>3</sub> and RB<sub>7</sub> are independently hydrogen, methyl, ethyl, -O-methyl, or cyclopropyl;

(L<sub>P1</sub>) and (L<sub>BT</sub>) divalent linking groups are both bonds;

 $(L_{P2})$  is a bond,  $-CH_2$ -, -CH(OH)-, or -C(Me)OH-;

Zp is 1,1-dimethylethyl; 1-hydroxycyclopentyl, 1-hydroxycyclohexyl,

3-ethyl-3-hydroxypentyl, 3-ethyl-3-hydroxypentenyl, 3-ethyl-3-hydroxypentynyl;

Z<sub>BT</sub> is

- -CO<sub>2</sub>H,
- -CO<sub>2</sub>Me,
- -CO<sub>2</sub>Et,
- -C(O)CH<sub>2</sub>S(O)Me,
- -C(O)CH2S(O)Et,
- -C(O)CH<sub>2</sub>S(O)<sub>2</sub>Me,
- $-C(O)CH_2S(O)_2Et$ ,
- -C(O)CH2CH2S(O)Me,
- -C(O)CH2CH2S(O)Et,
- -C(O)CH2CH2S(O)2Me,

- $-C(O)CH_2CH_2S(O)_2Et$ ,
- -C(O)CH(Me)CH<sub>2</sub>CO<sub>2</sub>H,
- -C(O)CH(Me)CH2CO2Me,
- -C(O)CH(Me)CH2CO2Et,
- -C(O)CH(Me)CH<sub>2</sub>CO<sub>2</sub>iPr,
- -C(O)CH(Me)CH2CO2tBu,
- -C(O)CH(Me)CH(Me)CO<sub>2</sub>H,
- -C(O)CH(Me)CH(Me)CO<sub>2</sub>Me,
- -C(O)CH(Me)CH(Me)CO<sub>2</sub>Et,
- -C(O)CH(Me)CH(Me)CO2iPr,
- -C(O)CH(Me)CH(Me)CO2tBu,
- -C(O)CH(Me)C(Me) 2CO<sub>2</sub>H,
- -C(O)CH(Me)C(Me) 2CO<sub>2</sub>Me,
- -C(O)CH(Me)C(Me) 2CO<sub>2</sub>Et,
- -C(O)CH(Me)C(Me) 2CO2iPr,
- -C(O)CH(Me)C(Me) 2CO2tBu,
- -C(O)CH(Me)CH(Et)CO<sub>2</sub>H,
- -C(O)CH(Me)CH(Et)CO<sub>2</sub>Me,
- -C(O)CH(Me)CH(Et)CO<sub>2</sub>Et,
- -C(O)CH(Me)CH(Et)CO2iPr,
- -C(O)CH(Me)CH(Et)CO2tBu,
- -C(O)C(O)OH,
- $-C(O)C(O)NH_2$ ,
- -C(O)C(O)NHMe,
- $-C(O)C(O)NMe_2$ ,
- -C(O)NH<sub>2</sub>,
- $-C(O)NMe_2$ ,
- $-C(O)NH-CH_2-C(O)OH$ ,
- $-C(O)NH-CH_2-C(O)OMe$ ,
- $-C(O)NH-CH_2-C(O)OEt$ ,

- -C(O)NH-CH<sub>2</sub>-C(O)OiPr,
- $-C(O)NH-CH_2-C(O)OtBu$ ,
- -C(O)NH-CH(Me)-C(O)OH,
- -C(O)NH-CH(Me)-C(O)OMe,
- -C(O)NH-CH(Me)-C(O)OEt,
- -C(O)NH-CH(Me)-C(O)iPr,
- -C(O)NH-CH(Me)-C(O)tBu,
- -C(O)NH-CH(Et)-C(O)OH,
- $-C(O)NH-C(Me)_2-C(O)OH$ ,
- $-C(O)NH-C(Me)_2-C(O)OMe$ ,
- $-C(O)NH-C(Me)_2-C(O)OEt$ ,
- $-C(O)NH-C(Me)_2-C(O)iPr$ ,
- $-C(O)NH-C(Me)_2-C(O)tBu$ ,
- -C(O)NH-CMe(Et)-C(O)OH,
- -C(O)NH-CH(F)-C(O)OH,
- -C(O)NH-CH(CF<sub>3</sub>)-C(O)OH,
- -C(O)NH-CH(OH)-C(O)OH,
- -C(O)NH-CH(cyclopropyl)-C(O)OH,
- $-C(O)NH-C(Me)_2-C(O)OH$ ,
- $-C(O)NH-C(Me)_2-C(O)OH$ ,
- -C(O)NH-CF(Me)-C(O)OH,
- $-C(O)NH-C(Me)(CF_3)-C(O)OH$ ,
- -C(O)NH-C(Me)(OH)-C(O)OH,
- -C(O)NH-C(Me)(cyclopropyl)CO<sub>2</sub>H
- $-C(O)NMe-CH_2-C(O)OH$ ,
- $-C(O)NMe-CH_2-C(O)OMe$ ,
- $-C(O)NMe-CH_2-C(O)OEt$ ,
- $-C(O)NMe-CH_2-C(O)OiPr$ ,
- -C(O)NMe-CH<sub>2</sub>-C(O)tBu,
- $-C(O)NMe-CH_2-C(O)OH$ ,
- -C(O)NMe-CH(Me)-C(O)OH,
- -C(O)NMe-CH(F)-C(O)OH,
- -C(O)NMe-CH(CF<sub>3</sub>)-C(O)OH,

- -C(O)NMe-CH(OH)-C(O)OH,
- -C(O)NMe-CH(cyclopropyl)-C(O)OH,
- -C(O)NMe-C(Me)<sub>2</sub>-C(O)OH,
- -C(O)NMe-CF(Me)-C(O)OH,
- $-C(O)NMe-C(Me)(CF_3)-C(O)OH$ ,
- -C(O)NMe-C(Me)(OH)-C(O)OH,
- -C(O)NMe-C(Me)(cyclopropyl)-C(O)OH,
- -C(O)NHS(O)Me,
- -C(O)NHSO<sub>2</sub>Me,
- -C(O)-NH-5-tetrazolyl,
- -C(O)NHS(O)Me,
- -C(O)NHS(O)Et,
- -C(O)NHSO<sub>2</sub>Me,
- -C(O)NHSO<sub>2</sub>Et,
- -C(O)NHS(O)iPr,
- -C(O)NHSO2iPr,
- -C(O)NHS(O)tBu,
- -C(O)NHSO2tBu,
- -C(O)NHCH2S(O)Me,
- -C(O)NHCH2S(O)Et,
- -C(O)NHCH2SO2Me,
- -C(O)NHCH2SO2Et,
- -C(O)NHCH2CH2S(O)Me,
- -C(O)NHCH2CH2S(O)Et,
- -C(O)NHCH2CH2SO2Me,
- -C(O)NHCH<sub>2</sub>CH<sub>2</sub>SO<sub>2</sub>Et,
- -C(O)N(Me)S(O)Me,
- $-C(O)N(Me)SO_2Me$ ,
- -C(O)-N(Me)-5-tetrazolyl,
- -C(O)N(Me)S(O)Me,
- -C(O)N(Me)S(O)Et,

- -C(O)N(Me)SO<sub>2</sub>Me,
- -C(O)N(Me)SO<sub>2</sub>Et,
- -C(O)N(Me)S(O)iPr,
- -C(O)N(Me))SO<sub>2</sub>iPr,
- -C(O)N(Me))S(O)tBu,
- -C(O)N(Me)SO2tBu,
- $-C(O)N(Me)CH_2S(O)Me$ ,
- $-C(O)N(Me)CH_2S(O)Et$ ,
- $-C(O)N(Me)CH_2SO_2Me$ ,
- -C(O)N(Me)CH<sub>2</sub>SO<sub>2</sub>Et,
- $-C(O)N(Me)CH_2CH_2S(O)Me$ ,
- -C(O)N(Me)CH<sub>2</sub>CH<sub>2</sub>S(O)Et,
- -C(O)N(Me)CH<sub>2</sub>CH<sub>2</sub>SO<sub>2</sub>Me,
- -C(O)N(Me)CH<sub>2</sub>CH<sub>2</sub>SO<sub>2</sub>Et,
- -CH<sub>2</sub>CO<sub>2</sub>H,
- -CH<sub>2</sub>-5-tetrazolyl,
- -CH<sub>2</sub>CO<sub>2</sub>Me,
- -CH<sub>2</sub>CO<sub>2</sub>Et,
- -CH<sub>2</sub>NHS(O)Me,
- -CH2NHS(O)Et,
- -CH<sub>2</sub>NHSO<sub>2</sub>Me,
- -CH2NHSO2Et,
- -CH<sub>2</sub>NHS(O)iPr,
- -CH2NHSO2iPr,
- -CH2NHS(O)tBu,
- -CH2NHSO2tBu,
- -CH<sub>2</sub>NHCH<sub>2</sub>CH<sub>2</sub>SO<sub>2</sub>CH<sub>3</sub>,
- -CH2NH(CH2CO2H),
- $-CH_2N(C(O)Me)(CH_2CO_2H),$

- -CH<sub>2</sub>-N-pyrrolidin-2-one,
- -CH<sub>2</sub>-(1-methylpyrrolidin-2-one-3-yl),
- -CH<sub>2</sub>S(O)Me,
- -CH<sub>2</sub>S(O)Et,
- $-CH_2S(O)_2Me$ ,
- -CH<sub>2</sub>S(O)<sub>2</sub>Et,
- -CH<sub>2</sub>S(O)iPr,
- -CH<sub>2</sub>S(O)<sub>2</sub>iPr,
- $-CH_2S(O)tBu$ ,
- -CH<sub>2</sub>S(O)<sub>2</sub>tBu,
- -CH<sub>2</sub>CO<sub>2</sub>H, CH<sub>2</sub>C(O)NH<sub>2</sub>,
- -CH<sub>2</sub>C(O)NMe<sub>2</sub>,
- -CH<sub>2</sub>C(O)NHMe,
- -CH<sub>2</sub>C(O)-N-pyrrolidine,
- -CH<sub>2</sub>S(O)<sub>2</sub>Me, CH<sub>2</sub>S(O)Me,
- -CH(OH) CO<sub>2</sub>H,
- -CH(OH)C(O)NH<sub>2</sub>,
- -CH(OH)C(O)NHMe,
- -CH(OH)C(O)NMe2,
- -CH(OH)C(O)NEt<sub>2</sub>,
- $-CH_2CH_2CO_2H$ ,
- $\hbox{-CH}_2\hbox{CH}_2\hbox{CO}_2\hbox{Me},$
- -CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>Et,
- $-CH_2CH_2C(O)NH_2$ ,
- -CH<sub>2</sub>CH<sub>2</sub>C(O)NHMe,
- -CH2CH2C(O)NMe2,
- -CH<sub>2</sub>CH<sub>2</sub>-5-tetrazolyl,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)<sub>2</sub>Me,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)Me,

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- -CH2CH2S(O)2Et,
- -CH<sub>2</sub>CH<sub>2</sub>S(O) Et,
- -CH2CH2S(O)iPr,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)<sub>2</sub>iPr,
- $-CH_2CH_2S(O)tBu$ ,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)<sub>2</sub>tBu,
- $-CH_2CH_2S(O)NH_2$ ,
- -CH<sub>2</sub>CH<sub>2</sub>S(O)NHMe,
- $-CH_2CH_2S(O)NMe_2,\\$
- $-CH_2CH_2S(O)_2NH_2$ ,
- $-CH_2CH_2S(O)_2NHMe$
- $-CH_2CH_2S(O)_2NMe_2$ ,
- $-CH_2CH_2CH_2S(O)Me,\\$
- $-CH_2CH_2CH_2S(O)Et$ ,
- $-CH_2CH_2CH_2S(O)_2Me$ , or
- - $CH_2CH_2CH_2S(O)_2Et$ .

10. (currently amended) The A compound according to claim 1 represented by formulae (C1) to (C22) below or a pharmaceutically acceptable salt or ester prodrug derivative thereof:

<del>C1)</del>

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-----<del>C3)</del>

<del>-----C4)</del>

C7)

C8)

C9)

C10)

C11)

C12)

-----C13)

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-----C14)

C17)

C18)

C19)

C20)

C21)

C22)

11. (currently amended) The compound <u>according to claim 1</u> represented by the structural formula AA or a pharmaceutically acceptable salt or <u>ester prodrug</u> thereof:

12. (currently amended) A compound according to claim 1 or a pharmaceutically acceptable salt or <u>ester prodrug</u> thereof wherein said compound is selected from

$$\begin{array}{c} & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & &$$

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13. (currently amended) The <u>ester prodrug</u> derivative of the compound according to claim 1wherein the <u>ester prodrug</u> is a methyl ester; ethyl ester; N,N-diethylglycolamido ester; or morpholinylethyl ester.

- 14. (previously presented) The salt derivative of the compound according to claim 1 wherein the salt is sodium or potassium.
- 15. (previously presented) A pharmaceutical formulation comprising the compound according to claim 1 together with a pharmaceutically acceptable carrier or diluent.
- 16. (currently amended) A formulation <u>according to claim 15</u> for treating osteoporosis comprising:

Ingredient (A1): the vitamin D receptor modulator according to claim 1;

Ingredient (B1):

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one or more co-agents selected from the group consisting of:

- a. estrogens,
- b. androgens,
- calcium supplements, c.
- d. vitamin D metabolites.
- e. thiazide diuretics.
- f. calcitonin,
- bisphosphonates, g.
- h. SERMS, and
- i. fluorides; and

Ingredient (C1): optionally, a pharmaceutically acceptable carrier or diluent.

17. (Original) The formulation of claim 16 wherein the weight ratio of (A1) to (B1) is from 10:1 to 1:1000.

18-19. (canceled)

20. (currently amended) A method of treating a mammal to prevent or alleviate the pathological effects of Acne, Actinic keratosis, Alopecia, Alzheimer's disease, Benign prostatic hyperplasia, Bladder cancer, Bone maintenance in zero gravity, Bone fracture healing, Breast cancer, Chemoprovention of Cancer, Crohn's disease, Colon cancer, Type I diabetes, Hostgraft rejection, Hypercalcemia, Type II diabetes, Leukemia, Multiple sclerosis, Myelodysplastic syndrome, Insufficient sebum secretion, Osteomalacia, Osteoporosis, Insufficient dermal firmness, Insufficient dermal hydration, Psoriatic arthritis, Prostate cancer, Psoriasis, Renal osteodystrophy, Rheumatoid arthritis, Scleroderma, Skin cancer, Systemic lupus erythematosus, Skin cell damage from, Mustard vesicants, Ulcerative colitis, Vitiligo, or Wrinkles; wherein the method comprises administering a pharmaceutically effective amount of at least one compound according to claim 1 or a pharmaceutically acceptable salt thereof.

- 21. (Original) The method of claim 20 for the treatment of psoriasis.
- 22. (Original) The method of claim 20 for the treatment of osteoporosis.

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23-35. (canceled)